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EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL Thirty-fourth Meeting Montreal, 18-20 July 2001

PROGRESS REPORT OF THE WORLD BANK

This document includes:

- The Comments and Recommendations of the Fund Secretariat
- The Annual Progress Report on World Bank Implemented Montreal Protocol Operations (January December 2000)

COMMENTS OF THE FUND SECRETARIAT

Introduction

- 1. The World Bank submitted its progress report on 4 May 2001. The report contained many inconsistencies that had to be addressed in a revised progress report. The Bank was only able to submit the revised report on 7 June 2001. The delayed submission of the revised progress report had an impact on completion of several documents to this meeting including: Report on Completed Projects with Balances, the Consolidated Progress Report, the Evaluation of 2000 Business Plans, and the Status of Compliance.
- 2. These data inconsistencies include, <u>inter alia</u>: indirect phase-out counted as phase-out, proposed completion dates different from that in the Inventory of Approved Projects, the level of funds approved different from the records in the Inventory of Approved Projects, missing planned dates of completion, and planned commitments larger than remaining balances. In the case of the 1998 annual halon project (China), the Bank's progress report last year indicated all funds disbursed, but this year it has a balance of US \$2.4 million. Some of these were corrected in the revised progress report, but not some critical data pertinent to other reports.
- 3. Indirect phase-out occurs from the funding of polyol production activities and refrigeration compressor manufacturers. In both cases, downstream users of polyol and compressors still need to convert their manufacturing processes to enable the phase-out to occur. However, some phase-out from China's commercial refrigeration sector is attributed to compressor manufacturers where China agreed not to seek phase-out for downstream manufacturers.
- 4. The dates of completion in proposals are used in determining projects with implementation delays. The Secretariat provides a copy of the Inventory of Approved Projects to all implementing agencies after each meeting for their review to make any appropriate changes based on meeting documents and Committee decisions. The date once entered should not be changed.
- 5. Due to the late submission of the Bank's revised progress report, the Secretariat could not wait for another submission from the Bank because several other documents are dependent upon the completion of all of the progress reports. Therefore, the Secretariat removed the relevant indirect phase-out from its assessment of the Bank's progress report and used the proposed completion dates in the Inventory of Approved Projects instead of the Bank's progress report to determine projects with implementation delays. The Secretariat also added 1,389 ODP tonnes phased out to the Bank's 2001 halon sector plan that the Bank understated in its revised progress report.

Status of Implementation¹

- 6. During the reporting period (1999-2000), the World Bank phased out 18,175 ODP tonnes, and disbursed about US \$82.1 million
- 7. In 2000, the World Bank completed 43 investment projects. Cumulatively, the Bank has completed 63 per cent (294 projects) of the 464 investment projects approved for its implementation through 2000. It has phased out 288 per cent (99,401 tonnes including 37,046 tonnes of production) of the ODP to be phased out from its portfolio of approved projects (113,074 tonnes including 39,026 tonnes of production). The Bank has disbursed 74 per cent (US \$312 million) of the resources approved by the Fund for it through 2000 (US \$423 million).
- 8. In 2000, the World Bank completed 1 technical assistance project, 17 project preparation activities and renewed 2 institutional strengthening project as planned in its 2000 business plan.
- 9. The World Bank completed 17 project preparation accounts in 2000. The Executive Committee approved 29 investment projects in 2000 valued at about US \$34.8 million for World Bank implementation that should result in the phase-out of 11,679.65 ODP tonnes.

Implementation delays

- 10. There are 73 projects with implementation delays after taking into consideration any projects removed from the list per Executive Committee decision. According to the procedures for project cancellation (Decision 26/2), a report on these projects will be provided to the 35th Meeting to determine if there is any progress toward removing the impediments causing the implementation delays.
- 11. The 73 World Bank projects classified with implementation delays is compared to last year when 43 projects were so classified. 8 of these 73 projects with implementation delays were also classified as having implementation delays last year. Annex I contains a list of the additional delays and latest planned completion dates of these 73 projects.

Institutional strengthening

12. The World Bank is implementing institutional strengthening which established national ozone units (NOUs) in six countries including: Chile, Ecuador, Jordan, the Philippines, Tunisia and Turkey. It reported that national ozone units under its implementation were operational. The Bank indicated that it was extending the project approved in 1992 for institutional strengthening in Turkey to accommodate additional work and that the remaining balance for the project is expected to be disbursed in 2001. Turkey received an institutional strengthening

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¹ Phase-out data includes only direct and agreed direct phase out from production and consumption projects.

² Excludes phase-out from closed projects.

renewal in December 2000. The Executive Committee may wish a report on the slow implementation of the institutional strengthening project in Turkey at its 35th meeting.

Refrigerant Management Plans

- 13. The World Bank is not preparing refrigerant management plans although it is developing national CFC phase-out projects in Malaysia, Philippines, and Thailand. It has also conducted 9 recovery and recycling projects in the following 6 countries: Chile, Malaysia, Mexico, Tunisia, Turkey, and Uruguay. Most of these projects were approved at the 5th or 7th Meetings of the Executive Committee except the projects in Malaysia and Uruguay that were approved at the 18th Meeting.
- 14. The World Bank has received funds to conduct three mobile air conditioner (MAC) recycling and emission reduction projects. The project in Indonesia was completed, but the projects in Malaysia and Thailand are ongoing. Both of these projects were approved in 1992. Both of these projects were removed from the list of projects with implementation delays at the 31st Meeting. No further delays have been reported and the Bank indicates that the recovery and recycling equipment is being distributed in both countries.

Apparent project overruns

15. In reviewing the World Bank's 1999 progress report the Secretariat asked about 15 projects with negative balances because pursuant to Decision 17/22 overruns are not allowed. Again this year, several projects had overruns. The Bank indicated that some of the overruns were from sub-projects in lines of grants where flexibility of funding is allowed, others are due to an excess amount of funding, totalling US \$6,057, having been returned to the Fund that the Bank stated would be absorbed from its administrative costs, and one overrun that was due to US \$704,166 having been charged to the wrong account. However, the Bank's revised database showed zero balances without the accompanying corrections to the funds disbursed. The following table presents the apparent project overruns (negative balances) and the Bank's explanations for them:

| Project Title | Code | Negative | Bank explanation |
|------------------------------------|--------------------|----------|---|
| | | Balance | |
| Project I: 50% CFC foam | CPR/FOA/07/INV/16 | -1,000 | The Bank has absorbed this overrun with |
| | | | its administrative fees. |
| Conversion from CFC-12 to HFC- | CPR/REF/18/INV/148 | -39 | The Bank has absorbed this overrun with |
| 134a MAC system at Yueyang | | | its administrative fees. |
| Hengli Air Conditioning Equipment | | | |
| Co. Ltd. | | | |
| Administration, coordination, | GLO/SEV/09/TAS/43 | -100 | The funds returned to the MLF to offset |
| financial, legal and OORG meetings | | | the balance were too high. The Bank has |
| (1993) | | | absorbed this cost. |

| Project Title | Code | Negative Balance | Bank explanation |
|---|--------------------|---------------------|--|
| Elimination of ODS used in the production of household refrigerators | IDS/REF/15/INV/23 | -4,660 | An excess amount of funding from the remaining balance was returned to the |
| at P.T. Lippo Melco Manufacturing | | | Fund in March 2000. |
| Elimination of ODSs used in the | IDS/REF/18/INV/36 | -258 | An excess amount of funding from the |
| production of household refrigerators | | | remaining balance was returned to the |
| at P.T. Topjaya Antariksa Electronics | | | Fund. |
| LPG purification at Jordan Refinery Company | JOR/ARS/07/INV/12 | -101,071 | This is part of a 1.5 million line of grant approval which allowed for flexibility in funding distribution between projects. |
| Phase out of CFC use in aerosol at Household and Toiletries | JOR/ARS/07/INV/13 | -14,582 | " |
| Phase out of CFC use in aerosol at Haddad and Sons Inc. | JOR/ARS/07/INV/14 | -27,000 | " |
| Phase out of CFC use in flexible foam at Kolaghassi Foam and Mattress Factory Co. | JOR/FOA/07/INV/08 | -26,418 | " |
| Technical assistance and demonstration of non-CFC technology in rigid and flexible foam production | TUN/FOA/07/INV/05 | -58,354 | Part of a 1.79 million line of grant approval which allowed for flexibility in funding distribution between projects. |
| Technical assistance for development of HFC-134a-based domestic refrigerators | TUN/REF/08/TAS/08 | -304,699 | |
| Implementation of Government actions (institutional strengthening) | TUN/SEV/08/INS/09 | -21,883 | " |
| Conversion of CFC-12 small open- type and semi-hermetic refrigerating compressor to HCFC-22 refrigerating compressor at Zhenjiang Refrigerating Equipment Factory (ZREF) | CPR/REF/20/INV/183 | -704,166 | There are two approvals for this project, this one and CPR/REF/22/INV/209. All disbursement to date was made against this project code, including approval amount from the other code. There is no overrun and the Task Manager is working with the FA to separate disbursement for next year's reporting. |

- 16. In the case of the lines of grants, the total amount approved for the line of grant in Jordan was US \$800,000 plus US \$700,000 for an LPG project that was specifically mentioned in the approval. This line of grant was adjusted by US \$70,000 at the 17th Meeting making it a total of US \$1,570,000. However, the total disbursed against the line of grant for Jordan according to the Bank's progress report is US \$1,624,861, an overrun of US \$54,861.
- 17. Moreover, the World Bank indicated that the following two projects were transferred to UNIDO:
 - Reduction of CFC-11 in rigid insulation foams in domestic and commercial refrigerators (JOR/FOA/07/INV/05) approved for US \$120,000

- Recovery and recycling of CFC-12 in refrigeration equipment and maintenance procedures and recycling in halon systems (JOR/REF/07/DEM/10) approved for US \$50,000
- 18. The World Bank indicated that these projects fell under the Jordan line of grant agreement. When it was decided not to implement these projects, which were included among other projects in this line of grant agreement, the Bank informally transferred the projects to UNIDO but mentioned this in its comments in previous progress report. No transfer of funding was involved nor an Executive Committee decision. However, as mentioned above, the line of grant for Jordan was overrun by US \$54,861 not including the US \$170,000 the Bank indicated that it transferred to UNIDO, which would increase the total overrun for the Jordan line of grant to US \$224,861.
- 19. The Executive Committee may wish to receive a report form the World Bank on the apparent project overrun for the Jordan line of grant before requesting it to adjust this overrun in accordance with Decision 17/22.

Additional delays

- The "Zhengshou Plastic foam project in China" (CPR/FOA/15/INV/86) was approved in 20. December 1994, was supposed to be completed in 12 months and is now expected to be completed 68 months late. It has been put on and taken off the list of projects with implementation delays twice before and will reappear on the list again based on an additional projected delay. Whilst 82 per cent of the funds have been disbursed, the project is still ongoing. This project experienced delays in signing sub-grant agreement (20th Meeting), legal arrangements (22nd Meeting), missing parts (25th Meeting), relocation of plant/trial production problems (28th Meeting), relocation of workshop (29th Meeting), financial difficulties (31st Meeting), and now ownership problems (34th Meeting). The Bank now reports that the relocation and financial difficulties have not been resolved because the original management was integrated into another group under Huayuan Group, and, because of a lawsuit involving Huayuan Group and a delayed court ruling. The Bank indicates that implementation is continuing and it has forecast a September 2001 completion date if the legal issues are resolved. The Executive Committee may wish to set a deadline for the resolution of the legal issues of 1 September 2001.
- 21. Concerning the "BPL refrigeration project in India" (IND/REF/25/INV/183), no funds have been disbursed on this US \$1 million project that should phase out 136 ODP tonnes of annual consumption. It is now on the list of projects with implementation delays as it is expected to be completed 18 months late. The project was supposed to be completed in February 2001. The Bank indicated that its appraisal had been completed but did not indicate if the sub-grant agreement had been signed to initiate the project. The Bank plans a mission in June to assess the situation. The Executive Committee may wish to receive an updated report from the Bank on its mission and consider the establishment of a deadline of 1 September 2001 for the signature of the sub-grant agreement.

- 22. The "Candi Swadaya Sentosa aerosol project in Indonesia" (IDS/ARS/22/INV/61) was approved in May 1997 to be completed in two years and it is now expected to be completed 3 years late in June 2002. It was classified with an implementation delays at the 22nd Meeting and subsequently removed from the list of projects with delays. It will now reappear on that list. None of the US \$1.2 million has been disbursed for this project that will result in the phase out of 460 ODP tonnes. At the 28th Meeting, the Bank informed the Committee that the enterprise felt insecure with its current economic situation so the Bank requested it to provide a timetable for implementation. At the 31st Meeting, the Bank indicated that it signed a sub-grant agreement with the company. To the 34th Meeting, the Bank indicates that investment costs were revised to current prices and the enterprise did "some local and international shopping" for an LPG storage tank, compressor and semi-automatic filling machine, but no procurement has begun. Moreover, the enterprise plans to request compensation for the consultancy cost for the revision of the investment costs. The Executive Committee may wish to set a deadline for the procurement of the equipment of 1 September 2001 with the automatic refund of remaining balances if the deadline is not achieved.
- 23. The "Sea Horse Maspion foam project in Indonesia" (IDS/FOA/23/INV/76) this project was approved in November 1997 and this report to the 34th Meeting indicates that the project is at a very early stage of implementation. None of the US \$532,200 for this project has been disbursed. The original project was to have taken two years and the delay for this project is three years. The project is expected to phase out 90 ODP tonnes of annual consumption. The Bank noted that its financial agent has been requesting the enterprise to speed up implementation and submit progress reports to the Government of Indonesia. The company has received three warnings of possible cancellation. The enterprise has obtained quotations for new equipment from two suppliers, but it indicates that the quoted prices are much higher than available grant funds and has requested the Bank to contact makers of existing equipment to assess costs of retrofitting. The Executive Committee may wish to set a deadline of submission of progress reports by 1 September 2001 to the Government of Indonesia with the automatic cancellation of this project and full return of approved funds if the deadline is not achieved.
- 24. For the "Umbrella rigid foam project in Pakistan" (PAK/FOA/23/INV/20), no funds have been disbursed for this US \$1.6 million foam project that was approved in November 1997 to phase out 262 ODP tonnes. The report to the 31st Meeting was that "bidding was completed and the equipment supplier was selected". However, to the 34th Meeting, the report is that "the bid analysis report was revised and a machinery verification visit is to be made to user companies in Europe". The Secretariat noted to the Bank that the project seemed to have moved backward from equipment having been selected to a study tour to Europe. This project is already expected to be completed 19 months late. The Bank indicated that purchase orders would be issued in June 2001. The Committee may wish to consider an update on the issuance of purchase orders and set an appropriate deadline form the next milestone based on the Bank's report.

Cancellation by mutual agreement

25. For the "Maharaja International refrigeration project in India" (IND/REF/22/INV/125), no funds have been disbursed and the project is expected to be completed 25 months late. The

World Bank is reporting to the 34th Meeting that the sub-grant agreement, the agreement that essentially begins the project, has not been executed. This despite the report to the 29th and 31st Meeting that implementation was in progress and the company had placed orders for equipment. The Bank reported to the 25th Meeting that the sub-grant agreement was with the enterprise for its execution. Then, to the 28th Meeting the Bank reported that the sub-grant agreement had been signed and the equipment was being procured. The Bank indicated that during a supervision mission in May 2001, it was agreed with the Government of India that the Bank would send a notice of cancellation for this project due to the unresponsiveness of the enterprise. The Executive Committee may wish to consider the cancellation of the project after hearing an updated report from the Bank.

Change of ownership

- 26. The "Whirlpool of India refrigeration project" (IND/REF/27/INV/204) is expected to phase out 201 ODP tonnes. The total project budget is US \$971,445. The World Bank indicated that the company is delaying implementation and has yet to submit information for appraisal that is required before a sub-grant agreement can be signed to initiate the project. Moreover, the Bank noted that the local ownership for the project is now 18 per cent. Nevertheless the Bank stated that the enterprise would submit a resolution from Board of Directors to reflect its commitment for a third quarter 2002 (September 2002) completion of the project.
- 27. Decision 19/38(b) addresses changes of ownership before signature of grant/sub-grant agreements. It states that where an ownership shift occurs after Executive Committee approval but before signature of the project document or grant/sub-grant agreement, the Implementing Agency "shall reduce the grant component to correspond to the share of national ownership, in which case the Implementing Agency will need to obtain from the enterprise concerned an official commitment/guarantee to full project implementation and provision of counterpart funds, since only partial funding will be provided through the Multilateral Fund".
- 28. The Executive Committee may wish to consider implementing Decision 19/38(b) for this project and request the World Bank to reduce the project grant and return the amount reduced to the Fund.

EGAT (Electricity Generating Authority of Thailand) Chiller concessional loan project in Thailand (THA/REF/26/INV/104)

29. The Bank has indicated a delay in the implementation of the US \$2,475,000 pilot concessional loan project for EGAT in Thailand (THA/REF/26/INV/104) that was approved at the Twenty-sixth Meeting in November 1998. According to the project milestones, the Bank's appraisal should have been completed four to six months after approval (therefore, at the latest May 1999). The Bank indicated that the project appraisal was approved in the first quarter of 2001. Last year, the Bank indicated that the delays in the Chiller programme were caused by the change in implementation modality from EGAT to IFCT. In addition, there was delay in the processing as this project is considered as a Learning and Innovation Loan (LIL)—a new Bank

lending modality. The delay in processing was not originally included in the project milestones. Therefore, the Bank provided an new timetable for the project last year: Pre-appraisal mission (May 2000), Decision meeting and appraisal mission (June 2000), Negotiation (August 2000), Board (September 2000), and Loan signing/Effectiveness (November 2000).

- 30. The Bank indicated that the Chief Executive Officer of the Global Environmental Facility had recently approved the project appraisal document in the first quarter of 2001 and that GEF funds for this project were now available. The new timetable project approval by the Bank's board at the end of June 2001. The Secretariat noted that there are no planned commitments in 2001 for this project and the Bank indicated that the first disbursement would take place nine months after the signing of the loan agreements. This would mean that disbursements are only likely to begin in 2002.
- 31. The Executive Committee approved this project on the inter alia, the following conditions:
 - the terms of the loan agreement would ensure that the funds would be returned to the Multilateral Fund at the end of the project or at the end of the fifth year of the programme
 - if the demonstration project was unsuccessful and that the amount to be refunded to the Multilateral Fund should exclude losses related to technology and currency risk, and
 - to request the World Bank to explore and implement measures to safeguard the resources of the Multilateral Fund and ensure expeditious implementation of the programme.
- 32. The project was approved in November 1998 so the beginning of the end of the fifth year of the project is December 2002. However, since disbursements would not begin until the second quarter of 2002 at the earliest, it is unlikely that the project would generate sufficient savings to cover the US \$2.5 million approved for this project after two quarters of operation.
- 33. The Executive Committee may wish to receive a report from the World Bank on this project at its 34th Meeting on how it can achieve its targeted refund by December 2002 and request an updated report to the 35th Meeting on new project milestones for this project.

China halon sector plan 2000 work programme

- 34. The World Bank informed the Secretariat that from preliminary information it appears that China has exceeded its halon 1211 consumption by 162 ODP tonnes and its halon 1301 consumption by 790 ODP tonnes for a total of 952 ODP tonnes. According to the Halon Sector Plan, China was expected to export during the year 2000, 1200 ODP tonnes of halon 1211 and 3180 ODP tonnes of halon 1301. However, this export amount did not materialise and some of the reported export was for internal shipments in China.
- 35. The Fund Secretariat noted to the Executive Committee in the context of the approval of the 2000 work programme, that China had exceeded its consumption target for 1998 by 447 ODP tonnes due to a reduced level of exports. The Secretariat also noted in its comments that China and the World Bank had developed an export quota system to prevent this from recurring in the

future (UNEP/OzL.Pro/ExCom/29/30, para. 3). The Bank indicated that although the quota system was implemented, the export quotas were issued when the companies confirmed that they had received an export order and it was assumed that the export would take place immediately thereafter. However, the Bank's experience was that the procedure put in place was not fully adequate because some intended exports failed to materialise and some claimed exports against sales to import-export companies located within China.

36. The Government of China and the Bank have agreed to measures that should remedy this situation. First, the initial production quotas will be issued at the domestic consumption levels in the halon agreement for both halon 1211 and halon 1301 so that if the exports do not occur, China will not exceed its consumption targets. Secondly, if a firm obtains an export order, it can first meet that order through existing stock or its initial production quota. Thirdly, additional quotas would be issued retroactively to equal the amount exported without exceeding the calculated reduction levels required by the agreement. The Government of China and the World Bank have further agreed to reduce the 2001 quota by the excess national consumption in 2000 to be determined after the technical audit has been completed. The Bank also indicated that the final audited numbers were expected to be available ahead of the 34th Meeting of the Executive Committee.

CFC National Phase-out Plans

- 37. The Bank's narrative indicates that it has worked closely in the year 2000 with inter alia, Jordan, Malaysia, Thailand, and the Philippines to develop phase out approaches which target entire sectors and provide policies to achieve long term goals. The Bank has received funds for the development of such approaches in Malaysia and Thailand, however, it has not received funds for such activities in the Philippines. In the case of Jordan, the Bank received funds for a country programme update in July 2000 but indicated that it has not started this project pending the completion of country programme update guidelines.
- 38. In the case of the two pilot national CFC phase-out plans for Malaysia (MAL/SEV/27/PRP/121) and Thailand (THA/SEV/27/PRP/107), both projects were supposed to be completed in January 2001. The Bank did not provide planned completion dates for these projects that have an impact on whether or not other agencies can submit projects for these countries and an impact on other such projects anticipated for the Philippines for example.
- 39. In 1999, the Bank indicated that the proposals would be submitted to the last meeting of 2000 because it was holding weekly meetings in Thailand and monthly meetings in Malaysia on the subject. Since these project proposals were not submitted to the 34th Meeting, it appears that they will be submitted at the earliest, one year late.
- 40. Project preparation is not normally considered an implementation delay and projects such as national phase-out programmes are expected to take longer to prepare. In the "Other Issues" section of its progress report narrative, the Bank indicates that it has been working with the respective governments and has an analysis of the sectors, investment and non-investment needs and timing for measures. It also indicated that Thailand has nearly completed its proposal.

41. The Executive Committee may wish to consider an update of these projects, a clear indication of when they will be submitted, and more information on what has been learned to date.

Changes to completed status

- 42. The Fund Secretariat asked several questions about projects that had been classified as completed but where the remarks in the progress report indicated that there were still activities underway or substantial balances of unspent funds. The Executive Committee's definition of project completion was established in decisions 17/22, 19/23 and at the 28th Meeting, it was further refined to include "that no further use of CFCs is in evidence, that the alternative product is being produced and/or has begun, and that the CFC-using equipment has been destroyed/dismantled/rendered unusable with CFCs (Decision 28/2). For the "PT. Samsung Maspion refrigeration project in Indonesia" (IDS/REF/21/INV/52), the Bank indicated that the project was completed in December 1999, but the remarks in the Bank's database indicated that the enterprise has confirmed to continue implementing cyclopentane but demands time to learn the technology from others. Confirmation to continue Cyclopentane was received in August 2000. Currently, Samsung only received one response from Cannon for retrofitting. Expects to get at least another supplier for comparison. The Secretariat asked the Bank to verify if the project was completed, but the Bank did not provide a response. This project has a remaining balance of US \$408,270 of the US \$537,226 approved for it in February 1997. The project is supposed to phase out 104 ODP tonnes of annual consumption in Indonesia.
- 43. The "Servicing, maintenance and recovery of portable extinguishers (halon-1211) and training programme in Malaysia (MAL/HAL/06/INV/04) that was approved in 1992 was declared completed by the World Bank in September 1998. However, the remarks in the Bank's database indicated that training was still underway, an action plan to claim the remaining balance has been revised and the facility was being moved. Based on these remarks, the Secretariat asked if the project was completed. The Bank indicated that the project was completed because the consumption of 900 ODP tonnes had been phased out through national policy and regulation and the establishment of the halon bank, but not all of the planned project goals such as the transition in halon bank management from the contracted party to the government to ensure a long-term solution to Malaysia's fire-protection needs.
- 44. The Secretariat also noted that in the case of the Shanghai Shangling General Refrigerator Factory project in China (CPR/REF/13/INV/78), the date completed changed from December 1999 in the 1999 progress report to June 2000 in the 2000 progress report. The project was to phase out 108 ODP tonnes. The Bank indicated that although Shangling had fully converted, it was still using CFC in production in December 1999, therefore the Bank changed the date of completion accordingly.

RECOMMENDATIONS

The Sub-Committee on Monitoring, Evaluation and Finance may wish to consider providing recommendations to the Executive Committee to:

- 1. Note the World Bank's progress report contained in (UNEP/OzL.Pro/ExCom/34/14).
- 2. Note the late submission of the World Bank's revised progress report and request the World Bank to adhere to the deadline for submission.
- 3. Request the World Bank to remove all indirect phase-out from its progress report in the future and request it to resolve all issues raised by the Secretariat concerning data inconsistencies and report back to the 35th Meeting on their resolution and the impact on its progress report.
- 4. Note that the World Bank will report on up to 73 projects with implementation delays including 8 projects that were so classified last year to the 35th Meeting.
- 5. Request the World Bank to provide an additional status report on the institutional strengthening project with slow implementation in Turkey.
- 6. Note that the World Bank should offset US \$6,057 against its administrative costs and request the Bank to adjust the (US \$54,861 to US \$224,861) overrun for the Jordan line of grant in the light of Decision 17/22.
- 7. Set deadlines for the following projects:
 - (a) "Zhengshou Plastic foam project in China" (CPR/FOA/15/INV/86)—deadline of 1 September 2001 for the resolution of the legal issues of the Huayuan Group related to the implementation of the project.
 - (b) "BPL refrigeration project in India" (IND/REF/25/INV/183)—deadline of 1 September for the signature of the sub-grant agreement.
 - (c) "Candi Swadaya Sentosa aerosol project in Indonesia" (IDS/ARS/22/INV/61)—deadline of 1 September 2001 for the procurement of equipment with the automatic refund of remaining balances if the deadline is not achieved.
 - (d) "Sea Horse Maspion foam project in Indonesia" (IDS/FOA/23/INV/76)—deadline of 1 September 2001 for the submission of progress reports to the Government of Indonesia or the automatic cancellation of this project and full return of approved funds if the deadline is not achieved.
 - (e) "Umbrella rigid foam project in Pakistan" (PAK/FOA/23/INV/20)—set an appropriate milestone deadline following a report from the Bank on its June 2001 mission;
- 8. Cancel the "Maharaja International refrigeration project in India" (IND/REF/22/INV/125) as agreed with the Government of India due to the unresponsiveness of the beneficiary enterprise.

- 9. Request the World Bank to implement Decision 19/38(b) concerning the "Whirlpool of India refrigeration project" (IND/REF/27/INV/204) and reduce the grant component accordingly and return the Funds to the 35th Meeting.
- 10. Request the World Bank to provide the Executive Committee with a report, at its 34th Meeting on the EGAT project in Thailand (THA/REF/26/INV/104) including how it can achieve its targeted refund by December 2002 and request an updated report to the 35th Meeting on new project milestones for this project.
- 11. Note the agreement of the Government of China and the World Bank to reduce the 2001 quotas for the halon plan by the excess national consumption in 2000 to be determined by an independent technical audit and the agreement on measures to remedy the export issue with regard to the China halon sector plan.
- 12. Note the planned submission dates of the national CFC phase-out projects for Malaysia and Thailand.
- 13. Note the World Bank's explanations about its classification of projects as completed and the cancellation of projects without the return of project funding for the line of grant projects.

ANNEX 1

PROJECTS REMAINING ON THE LIST OF PROJECTS WITH IMPLEMENTATION DELAYS

| Code | Project Title | Latest Decision on Project (From 32nd or 33rd Meetings) | Additional Delays | Latest Planned Completion Date |
|--------------------|--|---|----------------------|--------------------------------------|
| ARG/REF/19/INV/43 | Elimination of CFC in the manufacturing plant of domestic refrigerators at Adzen S.A. C.I.F. | Send letter of possible cancellation | 8 | Sep-01 |
| ARG/REF/23/INV/69 | Elimination of CFCs in the manufacturing plant of domestic refrigerators at Lobato San Luis S.A. | Continued Monitoring | 12 | Dec-01 |
| IDS/FOA/23/INV/77 | Flexible boxfoam. Technical assistance program for SMEs at Indonesian Foam Association (AFI) | Removal from the list of implementation delays | 22 | Dec-02 |
| IDS/FOA/23/INV/78 | Technical assistance programme for SMEs for flexible polyurethane foam at Indonesian Foam Association (AFI) | Removal from the list of implementation delays | 22 | Dec-02 |
| IND/REF/19/INV/92 | Elimination of CFCs in the manufacture of commercial refrigeration equipment at Chandra Frig Co. P., Ltd. | Send letter of possible cancellation | 6 | Jun-01 |
| IND/REF/22/INV/123 | Elimination of CFCs in the manufacture of commercial refrigeration equipment at Hindustan Refrigeration Industries | Deadline of 1 May for completion of Sub-grant Agreement | 9 | Sep-01 |
| JOR/FOA/15/INV/22 | Umbrella project for conversion to CFC-free technology at three flexible polyurethane foam factories at Arab Foam, Jordan Plastics, National Foam | Continued Monitoring | 25 | Dec-02 |
| THA/FOA/27/INV/109 | Conversion from CFC-11 to water blown and HCFC-141b technology in the manufacture of rigid foam (spray) at Bangkok Integrated Trading Co. | | 0 | Dec-00 |

ANNUAL PROGRESS REPORT

BANK-IMPLEMENTED MONTREAL PROTOCOL OPERATIONS

January - December 2000

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ATTACHMENTS

Annex A: Country Development and Institutional Strengthening Unit Highlights

Annex B: Progress and Financial Reporting Database (See Spreadsheet)

I. PROJECT APPROVALS AND DISBURSEMENTS

A. Annual Summary Data

- 1. Implementation of World Bank Multilateral Fund activities has progressed well in the calendar year 2000. With a cumulative ODP phaseout of 104,911 MT, 88 percent of the total ODP to be phased out through World Bank conversion projects has been achieved. Disbursement for the entire World Bank portfolio in the year 2000 is at US\$82,111,503, the highest amount of funding disbursed in any one year by the World Bank since inception of the program. This result has improved the percentage of cumulative MLF funding disbursed to 74 percent. New project approvals by the MLF have increased the number of active projects in the Bank's portfolio by 61 to a total of 777 (excluding cancelled and transferred projects).
- 2. The World Bank has more than met three of its four weighted indicators which were approved by the Executive Committee (Decision 30/18). The ODP phaseout target for 2000 was set at 12,585 MT. Actual phaseout was 18,324 MT, 146 percent of the target. In 2000, the World Bank made a commitment to submit 57 project completion reports to the Executive Committee and exceeded this target by 19 PCRs, for a total of 76 PCRs submitted. The disbursement target was US\$72.87 million *including* agency support fees and actual disbursement was US\$82.11 million, *excluding* agency support fees. Approximate total disbursed amount with agency fees for 2000 is US\$90.32 million meaning that the World Bank has surpassed its disbursement target and reached 124 percent disbursement. The World Bank strove to reach its fourth target of the number of countries with new approvals. Eleven countries out of the 14 country-target received new approvals.

Table I.1: Annual Summary

| Year Approved/Imple mentation Characteristic | Number of Approvals | Number Completed | Completed | ODP to be Phased Out | ODP Phased Out | Per Cent of ODP Phased Out | Approved Funding (US\$) | Adjustment (US\$) | Funds Disbursed (US\$) | Per Cent of Funds Disbursed | Balance (US\$) | Planned Commitment in Current Year (US\$) | Administrative Support (US\$) |
|---|------------------------|---------------------|-----------|-------------------------|----------------------|-------------------------------------|-------------------------------|----------------------|------------------------------|-----------------------------------|-------------------|--|-------------------------------------|
| Disburse | ment during | Implementat | ion | | | | | | | | | | |
| 1991 | 15 | 15 | 1.00 | 589 | 627 | 1.07 | 4,180,000 | (126,208) | 4,053,792 | 100 | - | - | 285,436 |
| 1992 | 46 | 44 | 0.96 | 18,596 | 23,107 | 1.24 | 27,314,076 | (704,759) | 23,382,971 | 88 | 3,769,470 | 365,838 | 950,977 |
| 1993 | 28 | 26 | 0.93 | 2,901 | 3,166 | 1.09 | 25,736,520 | 1,539,694 | 26,156,595 | 96 | 1,119,619 | 13,644 | 902,195 |
| 1994 | 52 | 44 | 0.85 | 10,684 | 9,635 | 0.90 | 44,842,887 | (5,219,902) | 34,207,019 | 86 | 5,420,627 | 2,215,461 | 1,670,366 |
| 1995 | 80 | 71 | 0.89 | 6,327 | 5,420 | 0.86 | 50,409,887 | (3,540,760) | 41,761,766 | 89 | 5,057,619 | 1,705,408 | 5,478,733 |
| 1996 | 57 | 40 | 0.70 | 4,071 | 2,185 | 0.54 | 34,517,148 | (1,690,163) | 26,453,274 | 81 | 7,077,877 | 4,546,838 | 4,820,867 |
| 1997 | 97 | 65 | 0.67 | 28,942 | 23,154 | 0.80 | 63,041,702 | (1,757,859) | 32,741,245 | 53 | 28,542,598 | 15,779,002 | 8,238,144 |
| 1998 | 62 | 34 | 0.55 | 14,942 | 12,670 | 0.85 | 41,105,054 | 1,832,305 | 27,239,630 | 63 | 15,697,729 | 6,928,124 | 5,009,159 |
| 1999 | 80 | 13 | 0.16 | 19,439 | 15,393 | 0.79 | 58,562,577 | 9,774,043 | 43,800,883 | 64 | 24,535,737 | 9,371,263 | 6,961,980 |
| 2000 | 68 | 15 | 0.22 | 10,381 | 6,867 | 0.66 | 36,375,604 | - | 16,304,500 | 45 | 20,071,104 | 10,758,734 | 3,478,990 |
| Sub-Total | 585 | 367 | 0.63 | 116,872 | 102,226 | 0.87 | 386,085,455 | 106,392 | 276,101,676 | 71 | 111,292,379 | 51,684,312 | 37,796,847 |
| Disbursemen | t after Comp | letion* | | | | | | | | | | | |
| 1992 | 4 | 4 | 1.00 | 373 | 373 | 1.00 | 1,344,000 | (66,845) | 1,249,855 | 98 | 27,300 | - | - |
| 1993 | 20 | 20 | 1.00 | 442 | 778 | 1.76 | 11,938,000 | (2,112,303) | 9,711,987 | 99 | 222,115 | - | - |
| 1994 | 2 | 2 | 1.00 | 370 | 362 | 0.98 | 1,857,200 | (359,500) | 1,455,537 | 97 | 42,163 | - | - |
| 1995 | 2 | 2 | 1.00 | 21 | 21 | 1.00 | 187,600 | - | 184,442 | 98 | 3,158 | - | - |
| Sub-Total | 28 | 28 | 1.00 | 1,206 | 1,534 | 1.27 | 15,326,800 | (2,538,648) | 12,601,821 | 99 | 294,736 | - | - |
| Retroactively Funded | 15 | 14 | 0.93 | 1,228 | 1,150 | 0.94 | 7,865,941 | (1,316,948) | 6,163,779 | 94 | 385,214 | 64,206 | - |
| Time Sensitive | 149 | 149 | 1.00 | - | - | 0.00 | 25,362,086 | (7,953,416) | 17,408,653 | 100 | - | - | |
| GRAND-TOTAL | 777 | 558 | 0.72 | 119,307 | 104,911 | | 434,640,282 | (11,702,620) | 312,275,929 | 74 | 111,972,330 | 51,748,518 | 37,796,847 |

^{* -} Does not include projects that were implemented before Executive Committee approval.

Note 1: Agency and National implementation is not distinguished in this table.

Note 2: Retroactive projects and time-sensitive accounts are provided for all years as one cumulative figure (not included in annual data).

Note 3: 3 Agency Fee for Projects Approved before Nov 1995 included in Approved Amount.

Note 4: Administrative support for Projects Approved before Nov 1995 includes only central administrative functions. Supervision is recorded with project preparation and is exhibited here.

Note 5: Adjustments include both subsequent approvals for existing projects and funds returned on approved projects.

Note 6: Cancelled and transferred projects have been removed from both approved and completed projects columns.

B. Interest

3. The total interest earned on Multilateral funds held by the Bank for the reporting period (January 1, 2000 to December 31, 2000) was US\$7,612,597. As of 12/31/00 the cumulative interest earned was US\$37,716,943.

C. Summary Data by Project Type (CPG, DEM, INS, INV, PRP, TAS, TRA)

4. Table I.2 summarizes the entire portfolio of World Bank project approvals, adjustments and disbursements by type of project or activity. As can be seen from the table, the major proportion of the Bank's approved funding to date has gone for investment projects, US\$383,166,786. In contrast to investment projects, the amounts allocated for institutional strengthening, US\$2,913,906 and country program development, US\$2,345,391 have decreased in relative proportion as ODS phaseout programs mature in Article 5 countries and their capacity for their own management improves.

Type Number of Number Percent Approved Adjustment **Funds** Percent of Balance **Planned Approvals** Completed Completed Funding (US\$) Disbursed Funds (US\$) **Commitments** (US\$) (US\$) Disbursed in Current Year (US\$) 27 26 96.30 2,345,391 (842,659)92.11 25,000 1,452,732 50,000 Country programme preparation 4 25.00 1,648,842 (181,550)673,983 45.93 793,309 496,187 Demonstration 15 2,913,906 1,894,742 73.09 706,336 Institutional 53.33 (322,827)411,364 strengthening Investment 464 294 63.36 383,166,786 (2,231,711)275,831,930 72.41 106,149,061 49,670,053 233 27,404,262 (6,347,688)20,558,697 Project 200 85.84 95.65 447,877 429,000 preparation 31 16,803,219 11,683,493 3,789,164 Technical 26 83.87 (1,635,243)76.62 716,914 assistance 100.00 Training 100.00 357,876 (140,942)180,352 36,582 Sub-Total 777 558 71.81 434,640,282 (11,702,620)312,275,929 73.71 111,972,330 51,748,518

Table I.2: Summary Data by Project Type

D. Sector Phaseout by Country

5. Table I.3 presents a summary list of sectors, which have received Multilateral Fund support through the Bank, by country and amount of ODS phased out. At the present time, the World Bank's portfolio of ODS phaseout projects has resulted in a phaseout of 104,911 MT in 18 countries.

Table I.3: Sector Phaseout by Country

| Country | Aerosols | Foams | Halons | Multi-sector | Other | Production | Refrigeration | Solvents | Total |
|-------------|----------|-------|--------|--------------|-------|------------|---------------|----------|---------|
| Argentina | _ | - | - | - | - | - | 354 | _ | 354 |
| Brazil | - | 204 | - | - | - | - | 811 | - | 1,015 |
| Chile | - | 66 | - | - | - | - | 49 | - | 115 |
| China | 16,667 | 4,079 | 46,156 | - | - | 15,229 | 3,781 | - | 85,911 |
| Colombia | - | 7 | - | - | - | - | - | - | 7 |
| Ecuador | 82 | 126 | - | - | - | - | - | - | 208 |
| Egypt | = | - | - | - | - | - | 292 | - | 292 |
| India | 278 | 1,604 | 462 | - | 1 | 1,882 | 1,118 | 57 | 5,401 |
| Indonesia | - | 920 | 682 | - | 54 | - | 613 | 22 | 2,292 |
| Jordan | 396 | 215 | - | - | - | - | - | - | 611 |
| Malaysia | 256 | 87 | 900 | - | - | - | 699 | 137 | 2,079 |
| Mexico | = | 34 | - | 36 | - | - | 374 | 183 | 627 |
| Pakistan | - | 63 | - | - | 1 | - | - | - | 63 |
| Philippines | - | - | - | - | 350 | - | 461 | 107 | 918 |
| Thailand | - | 517 | - | - | - | - | 818 | 100 | 1,434 |
| Tunisia | 50 | 105 | - | - | - | - | 72 | - | 227 |
| Turkey | - | 1,530 | - | - | - | - | 1,277 | 16 | 2,823 |
| Uruguay | - | 4 | - | - | - | - | 21 | - | 24 |
| Venezuela | - | 259 | - | - | - | - | 221 | - | 480 |
| Zimbabwe | - | - | - | - | - | - | 28 | - | 28 |
| Total | 17,729 | 9,807 | 48,200 | 36 | 404 | 17,111 | 10,989 | 621 | 104,911 |

II. PROJECT COMPLETIONS SINCE LAST REPORT

6. Projects completed during this reporting period (January 1, 2000 to December 31, 2000) are highlighted in Table II.1 below.

A. ODP Phased Out Since Last Report

7. The total quantity of ODP phased out in association with the 62 projects completed during the reporting period amounts to 18,324 MT ODP, about 146 percent of the Bank's 2000 Business Plan target. These projects are 74 percent disbursed, leaving a current balance of US\$19,485,362.

B. Non-Investment Project Completions Since Last Report

- (a) <u>Country Programs</u>: The World Bank has completed no Country Programs since the last report.
- (b) <u>Technical Assistance</u>: The World Bank has completed no technical assistance projects since the last report.
- (c) <u>Training</u>: In order to build national capacity, the World Bank works with financial agents and other local executive agencies to implement and monitor projects. The World Bank provides ongoing training to the FAs to ensure that they are kept abreast of new Executive Committee decisions, while reinforcing their existing understanding of implementation, monitoring and reporting requirements. In 2000, the fourth annual FA workshop, held in Washington, brought together FAs and a few NOU representatives from around the globe. The areas of major focus included project completion reporting. The MLF Senior Monitoring and Evaluation Officer provided an introduction to the new draft PCR template and received feedback from the FAs. A Financial Agent workshop on monitoring and evaluation was held in China in early 2000 for the two FAs and all their regional branches which concentrated on methods to streamline and expedite the PCR process while improving the quality of reporting. More than 35 FA representatives attended.

Table II.1: Project Completions During Reporting Period

| Project Title | Region | | Project | t Nun | nber | | ODP Phased Out | Date Approved | First Disb. Date | Date Compl. (Actual) | Date of Financial Compl. | Approved Funding (US\$) | Adj. (US\$) | Funds Disbursed (US\$) | Percent of Funds Disbursed | Balance (US\$) | Planned Commitments in Current Year (US\$) |
|---|--------|-----|---------|-------|------|-----|----------------------|------------------|------------------------|----------------------------|--------------------------------|-------------------------------|----------------|------------------------------|----------------------------------|-------------------|--|
| Elimination of CFC in the domestic refrigerator manufacturing plant of McLean | LAC | ARG | REF | 15 | INV | 21 | 74 | Dec-94 | Feb-98 | Aug-00 | | 2,440,570 | - | 467,569 | 19 | 1,973,001 | 986,500 |
| Conversion to non-CFC technology in the production of mobile air conditioning systems at Sistemaire, S.A. | LAC | ARG | REF | | INV | 40 | | Nov-95 | Aug-98 | Sep-00 | | 2,370,550 | - | 969,822 | 41 | 1,400,728 | - |
| Substituting CFCs by HCFC-141b and HFC-134a in manufacturing of domestic and commercial refrigerators at El Dorado, S.A. | | | REF | | INV | 77 | | Jul-98 | Jun-99 | Sep-00 | Jun-00 | 176,000 | - | 176,000 | 100 | - | - |
| Elimination of CFCs in sterilization via ETO at Asisthos SRL | LAC | ARG | STE | 27 | INV | 82 | 21 | Mar-99 | Jun-99 | Sep-00 | Mar-01 | 395,095 | - | 395,095 | 100 | - | - |
| Project preparation in the commercial refrigeration sector | LAC | ARG | REF | 30 | PRP | 107 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 10,000 | - | 10,000 | 100 | - | - |
| Project preparation for the CFC production sector | LAC | ARG | PRO | 31 | PRP | 112 | - | Jul-00 | Mar-00 | Dec-00 | Dec-00 | 40,000 | - | 40,000 | 100 | - | - |
| Conversion of CFC-11 to cyclopentane foam blowing agent and CFC-12 to HFC-134a refrigerant at Tecnomecanica Esmaltec Ltda. | | | REF | | INV | 50 | | May-96 | Aug-98 | Mar-00 | | 924,040 | - | 924,040 | 100 | - | - |
| Ozone protection and institutional strengthening project (renewal) | LAC | СНІ | SEV | 25 | INS | 36 | _ | Jul-98 | Jan-99 | Dec-00 | Dec-00 | 143,500 | - | 143,500 | 100 | - | - |
| Preparation of projects in the foam, commercial refrigeration and solvent sectors | LAC | COL | SEV | 27 | PRP | 33 | - | Mar-99 | Jun-99 | Dec-00 | Dec-00 | 38,000 | - | 38,000 | 100 | - | - |

| Project preparation in | LAC | COL | REF | 30 | PRP | 43 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 25,000 | _ | 25,000 | 100 | - | - |
|--|-----|-----|-----|----|------|-----|-------|--------|---------|--------|--------|------------|---|-----------|-----|-----------|--------|
| MACs and compressors | | | | | | | | | | | | Í | | , | | | |
| project category | | | | | | | | | | | | | | | | | |
| Engineering assistance for | ASP | CPR | REF | 13 | INV | 78 | 108 | Jul-94 | Dec-96 | Jun-00 | | 1,327,000 | - | 1,262,534 | 95 | 64,466 | 32,233 |
| conversion of refrigerator | | | | | | | | | | | | | | | | | |
| manufacture to HFC-134a | | | | | | | | | | | | | | | | | |
| with rotary compressor at | | | | | | | | | | | | | | | | | |
| Shanghai Shangling | | | | | | | | | | | | | | | | | |
| General Refrigerator | | | | | | | | | | | | | | | | | |
| Factory | | | | 1 | | | | | - 4 - 4 | | | | | | | | |
| Conversion of medium | ASP | CPR | REF | 15 | INV | 107 | 232 | Dec-94 | Jul-96 | Aug-00 | | 3,098,000 | - | 2,912,938 | 94 | 185,062 | 92,531 |
| sized semi-hermetic CFC- | | | | | | | | | | | | | | | | | |
| 12 air conditioning | | | | | | | | | | | | | | | | | |
| compressor production to | | | | | | | | | | | | | | | | | |
| HCFC-22 at Beijing | | | | | | | | | | | | | | | | | |
| Refrigerating Machinery Factory | | | | | | | | | | | | | | | | | |
| Conversion of CFC-11 and | ACD | CPR | REF | 20 | INV | 182 | 220 | Oct-96 | Jan-98 | Aug-00 | | 2,632,000 | | 2,555,935 | 97 | 76,065 | 76,065 |
| CFC-12 centrifugal | ASI | CIK | KLI | 20 | 1111 | 102 | 220 | OCI-90 | Jan-96 | Aug-00 | | 2,032,000 | - | 2,333,933 | 91 | 70,003 | 70,003 |
| refrigerating compressor to | | | | | | | | | | | | | | | | | |
| HFC-134a centrifugal | | | | | | | | | | | | | | | | | |
| technology at Chongqing | | | | | | | | | | | | | | | | | |
| General Machinery Factory | , | | | | | | | | | | | | | | | | |
| (CGMF) | | | | | | | | | | | | | | | | | |
| Halon sector 2000 annual | ASP | CPR | HAL | 29 | INV | 309 | 9,682 | Nov-99 | | Dec-00 | | 10,600,000 | - | 5,670,500 | 53 | 4,929,500 | - |
| programme | | | | | | | | | | | | | | | | | |
| Project preparation in the | ASP | CPR | FOA | 30 | PRP | 342 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 20,000 | - | 20,000 | 100 | - | - |
| flexible polyurethane foam | | | | | | | | | | | | | | | | | |
| subsector | | | | | | | | | | | | | | | | | |
| Sector plan for CFC | ASP | CPR | PRO | 30 | INV | 347 | 4,931 | Mar-00 | | Dec-00 | | 13,000,000 | - | 6,902,500 | 53 | 6,097,500 | - |
| production phaseout in | | | | | | | | | | | | | | | | | |
| China, 2000 annual | | | | | | | | | | | | | | | | | |
| programme (II tranche) | | | | | | | | | | | | | | | | | |
| Project preparation in the foam flexible subsector | ASP | CPR | FOA | 30 | PRP | 349 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 30,000 | - | 30,000 | 100 | - | - |
| Project preparation in the | ASP | CPR | REF | 30 | PRP | 352 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 20,000 | - | 20,000 | 100 | - | - |
| domestic refrigeration | | | | | | | | | | | | | | | | | |
| subsector | | | | | | | | | | | | | | | | | |
| Project preparation in the | ASP | CPR | FOA | 30 | PRP | 353 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 30,000 | - | 30,000 | 100 | - | - |
| rigid polyurethane foam | | | | | | | | | | | | | | | | | |
| sub-sector | | | | | | | | | | | | | | | | | |
| Project preparation in the | ASP | CPR | PAG | 30 | PRP | 354 | - | Mar-00 | Mar-00 | Dec-00 | Dec-00 | 100,000 | - | 100,000 | 100 | - | - |
| solvent (process agent) | | | | | | | | | | | | | | | | | |
| sector | | | | | | | | | | | | | | | | | |

| Preparation of investment | LAC | ECU | SEV | 27 | PRP | 27 | | Mar-99 | Dec-99 | Dec-00 | Dec-00 | 24,000 | _ | 24,000 | 100 | _ | _ |
|-------------------------------------|------|------|-------|----|--------|-----|-----|---------|--------|--------|--------|---------|---------|---------|-----|---------|--------|
| projects in the foam and | Lite | LCC | SE V | 2, | 1 101 | 2, | | With 77 | Dec 33 | DCC 00 | DCC 00 | 21,000 | | 21,000 | 100 | | |
| commercial refrigeration | | | | | | | | | | | | | | | | | |
| sectors | | | | | | | | | | | | | | | | | |
| Project preparation | GLO | GLO | SEV | 26 | PRP | 177 | - | Nov-98 | Mar-00 | Dec-00 | Dec-99 | 140,000 | - | 140,000 | 100 | - | - |
| advance | | | | | | | | | | | | , | | , | | | |
| PPA III | ASP | IDS | SEV | 21 | PRP | 00 | - | Feb-97 | Mar-00 | Dec-00 | Dec-00 | 1 | 150,000 | 150,000 | 100 | - | - |
| Replacement of CFC-11 as | ASP | IND | FOA | | INV | 23 | 72 | Jul-94 | Apr-97 | Sep-00 | | 502,130 | - | 479,599 | 96 | 22,531 | 11,265 |
| blowing agent in | | | | | | | | | 1 | 1 | | , | | , | | , | , |
| polyurethane foam systems | | | | | | | | | | | | | | | | | |
| with low and non-ODS | | | | | | | | | | | | | | | | | |
| materials at Expanded | | | | | | | | | | | | | | | | | |
| Incorporation | | | | | | | | | | | | | | | | | |
| Phase out of CFC-11 in the | ASP | IND | FOA | 17 | INV | 38 | 27 | Jul-95 | Jun-99 | Mar-00 | | 253,200 | - | 120,827 | 48 | 132,373 | 66,187 |
| manufacture of flexible | | | | | | | | | | | | | | | | | - |
| polyurtehane foams at | | | | | | | | | | | | | | | | | |
| Karnataka Consumer | | | | | | | | | | | | | | | | | |
| Products Ltd. (under | | | | | | | | | | | | | | | | | |
| SPAP) | | | | | | | | | | | | | | | | | |
| Phase out of CFC-11 in the | ASP | IND | FOA | 17 | INV | 43 | 18 | Jul-95 | Nov-97 | Feb-00 | | 278,000 | - | 266,168 | 96 | 11,832 | 5,916 |
| manufacture of PUF | | | | | | | | | | | | | | | | | |
| sandwich panels at | | | | | | | | | | | | | | | | | |
| Polynate Foams Pvt. Ltd. | | | | | | | | | | | | | | | | | |
| (under SPAP) | | | | | | | | | | | | | | | | | |
| Phase-out of CFCs in the | ASP | IND | FOA | 18 | INV | 58 | 25 | Nov-95 | May-98 | Jun-00 | | 197,200 | - | 181,242 | 92 | 15,958 | 15,958 |
| manufacture of extruded | | | | | | | | | | | | | | | | | |
| polyethylene foam at | | | | | | | | | | | | | | | | | |
| Shroff Textiles Ltd. | | | | | | | | | | | | | | | | | |
| Conversion to non-CFC | ASP | IND | REF | 22 | INV | 116 | 30 | May-97 | Jan-98 | Aug-00 | | 944,914 | - | 854,245 | 90 | 90,669 | - |
| technology in the | | | | | | | | | | | | | | | | | |
| production of MAC | | | | | | | | | | | | | | | | | |
| systems at Pranav Vikas | | | | | | | | | | | | | | | | | |
| India Ltd. | 4 GD | D.ID | 4 D.C | | T 17 7 | 110 | 50 | 3.5 0.5 | T 00 | D 00 | | 112.055 | | 05.500 | 0.6 | 16.105 | 12 000 |
| My Fair Lady aerosol | ASP | IND | ARS | 22 | INV | 119 | 59 | May-97 | Jun-99 | Dec-00 | | 113,975 | - | 97,780 | 86 | 16,195 | 12,000 |
| conversion, Delhi | 4 GD | D.ID | DEE | | T 17 7 | 120 | 1.5 | 3.5 0.7 | 3.5 00 | 4 00 | D 00 | 150 100 | | 150.014 | 100 | 1.66 | |
| Elimination of CFCs in the | ASP | IND | REF | 22 | INV | 120 | 17 | May-97 | May-98 | Aug-00 | Dec-00 | 170,180 | - | 170,014 | 100 | 166 | - |
| manufacture of commercial | | | | | | | | | | | | | | | | | |
| refrigeration equipment at | | | | | | | | | | | | | | | | | |
| Standard Refrigeration | | | | | | | | | | | | | | | | | |
| Appliances Conversion to non-CFC | ASP | INID | DEE | 22 | INV | 121 | 7 | M 07 | Do- 07 | A = 00 | | 400.920 | | 244 211 | 70 | 146 500 | 72.254 |
| | ASP | IND | REF | 22 | IIN V | 121 | / | May-97 | Dec-97 | Aug-00 | | 490,820 | - | 344,311 | 70 | 146,509 | 73,254 |
| technology in the production of MAC | | | | | | | | | | | | | | | | | |
| systems at Sanden Vikas | | | | | | | | | | | | | | | | | |
| India Ltd. | | | | | | | | | | | | | | | | | |
| muia Liu. | | | | | | | | | | | | | | | | | |

| manufacture of commercial refrigeration equipment at Sales Parameterial refrigeration of Parameterial re | | 1 | | 1 | | 1 | 1 | | | | | | | | 1 | 1 | | |
|--|----------------------------|-----|-----|-----|-----|-----|-----|-------|--------|--------|------------|--------|------------|--------|------------|-----|-----------|-----------|
| refrigeration equipment at Aarlay Industries Elimination of CPCs in the manufacture of commercial refrigeration equipment at Sander Refrigerat | | | IND | REF | 23 | INV | 144 | 20 | Nov-97 | Jul-99 | Sep-00 | | 135,798 | 15,128 | 82,500 | 55 | 68,426 | 65,000 |
| Aurikary Industries Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sarkar | | | | | | | | | | | | | | | | | | |
| Elimination of CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Safety and Part of the CPCs in the munifacture of commercial refrigeration equipment at Sandean Refrigeration equipment at Sandean Refrigeration equipment at Sandean Part of the CPCs in the munifacture of commercial refrigeration equipment at Sandean Refrigeration equipment at Sande | | | | | | | | | | | | | | | | | | |
| manufacture of commercial refrigeration equipment at Salkrupa fundastries | | | | | | | | | | | | | | | | | | |
| Saikrupa Industries | | | IND | REF | 23 | INV | 145 | 14 | Nov-97 | Feb-99 | Sep-00 | | 125,618 | 10,524 | 82,500 | 61 | 53,642 | 53,000 |
| Saiking landustries Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sidval Refrigeration in the Sidval Refrigeration of CFCs in the manufacture of commercial refrigeration equipment at Sidval Refrigeration in the Sidval Refrigeration in the Sidval Refrigeration of CFCs in the manufacture of commercial refrigeration equipment at Sidval Refrigeration equipment at Sidval Refrigeration in the Sidval Refrigeration equipment at Sidval Refrigeration equ | | | | | | | | | | | | | | | | | | |
| Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sarder Refrigeration equipment at Sander Refrigeration equipment Refrigeration equipment at Sander Refrigeration equipment at Sand | | | | | | | | | | | | | | | | | | |
| Project proparation ASP IND PRO 29 INV 238 - Nov-99 Aug-00 | | | | | | | | | | | | | | | | | | |
| Refrigeration equipment at Sandar Refrigeration Refrigerat | | | IND | REF | 23 | INV | 152 | 12 | Nov-97 | Feb-00 | Nov-00 | | 117,100 | 2,760 | 73,950 | 62 | 45,910 | 45,000 |
| Sarkar Refrigeration Industries Sarkar S | | | | | | | | | | | | | | | | | | |
| Industries Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sidwal Refrigeration equipment at Sidwal Refrigeration (adustries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sidwal Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration (adustries P. Ltd. Silmination of CFCs in the manufacture of commercial refrigeration of the properties of the state of | | | | | | | | | | | | | | | | | | |
| Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sidwal Refrigeration Industries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sidwal Refrigeration and sidwal Refrigeration sidwal Refrigeration and sidwal Refrigeration sidwal sidwal Refrigeration sidwal Refrigeration sidwal sidwal Refrigeration sidwal sidwal Refrigeration sidwal sidw | Sarkar Refrigeration | | | | | | | | | | | | | | | | | |
| manufacture of commercial refrigeration equipment at Sidwal Refrigeration industries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration of CFC production sector phase out plan (1999) CFC production sector phase out plan (1999) CFC production sector phase out project: 2000 Annual Programme CROWNERS OF CFC CFC refres and Paper Sport ARS Sp | Industries | | | | | | | | | | | | | | | | | |
| refrigeration equipment at Sidwal Refrigeration Industries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration in Industries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration equipment at Sandeep Refrigeration in India CFC production sector phase out plan (1999) CFC production sector phase out plan (1999) CFC production sector gradual phase-out project: 2000 Annual Programme Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam Project preparation of projects preparation of Project preparation in the ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 100 - 10,000 100 100 - 10,000 100 100 100 100 100 100 100 100 | Elimination of CFCs in the | ASP | IND | REF | 23 | INV | 160 | 14 | Nov-97 | Oct-99 | Sep-00 | | 169,744 | 5,174 | 88,689 | 51 | 86,229 | 60,000 |
| Sidwal Refrigeration Industries P. Ltd. Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration India CFC production sector phase out plan (1999) CFC production sector phase out project: 2000 Annual Programme Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam Project preparation of the aerosol sector ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 | manufacture of commercial | | | | | | | | | | | | | | | | | |
| Industries P. Ltd. | refrigeration equipment at | | | | | | | | | | | | | | | | | |
| Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sandeep Refrigeration India CFC production equipment at Sandeep Refrigeration India CFC production sector gradual phase-out project: 2000 Annual Programme Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam Project preparation of Project preparation in the foam general sector Projects from the halon non-recycling Elimination of ODS in the purches where the subject is the subject at Star Foam Paper IND REF 25 INV 180 10 Jul-98 Aug-99 Aug-90 107,684 - 68,463 64 39,221 25,000 Aug-99 Aug-90 Nov-00 Jul-00 12,000,000 - 11,710,000 98 290,000 290,000 Sep-00 Dec-00 11,000,000 - 8,584,000 78 2,416,000 2,416,000 The project preparation of the foam general sector Project preparation in the foam general sector Project preparation in the halon non-recycling Elimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper | Sidwal Refrigeration | | | | | | | | | | | | | | | | | |
| May-97 Dec-99 Jul-00 J | Industries P. Ltd. | | | | | | | | | | | | | | | | | |
| refrigeration equipment at Sandeep Refrigeration India CFC production sector phase out plan (1999) CFC production sector gradual phase-out project: 2000 Annual Programme Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam Project preparation of Project preparation in the faam general sector Project preparation of ODS in the process of EPE/EPS foam sheet at Star Foam Paper | Elimination of CFCs in the | ASP | IND | REF | 25 | INV | 180 | 10 | Jul-98 | Aug-99 | Aug-00 | | 107,684 | - | 68,463 | 64 | 39,221 | 25,000 |
| Sandeep Refrigeration India CFC production ASP IND PRO 29 INV 238 - Nov-99 Aug-00 Nov-00 Jul-00 12,000,000 - 11,710,000 98 290,000 2 | manufacture of commercial | | | | | | | | | | | | | | | | | |
| India CFC production Sector phase out plan (1999) ASP IND PRO 29 INV 238 - Nov-99 Aug-00 Nov-00 Jul-00 12,000,000 - 11,710,000 98 290,000 290,000 290,000 (1999) CFC production sector gradual phase-out project: 2000 Annual Programme ASP IND PRO 31 INV 262 1,882 Jul-00 Sep-00 Dec-00 11,000,000 - 8,584,000 78 2,416,000 2,416,000 2,416,000 Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 - Topicety preparation of projects in the aerosol sector Project preparation in the foam general sector Project preparation in the halon non-recycling Elimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper ASP MAL FOA 17 INV 59 66 Jul-95 Jul-97 Oct-00 295,000 - 243,297 82 51,703 37,358 September Star Foam Paper | refrigeration equipment at | | | | | | | | | | | | | | | | | |
| Sector phase out plan (1999) Sep-00 Dec-00 | Sandeep Refrigeration | | | | | | | | | | | | | | | | | |
| Sector phase out plan (1999) Sep-00 Dec-00 | India CFC production | ASP | IND | PRO | 29 | INV | 238 | - | Nov-99 | Aug-00 | Nov-00 | Jul-00 | 12,000,000 | - | 11,710,000 | 98 | 290,000 | 290,000 |
| CFC production sector gradual phase-out project: 2000 Annual Programme ASP IND PRO 31 INV 262 1,882 Jul-00 Sep-00 Dec-00 11,000,000 - 8,584,000 78 2,416,000 | sector phase out plan | | | | | | | | | Č | | | | | | | | |
| gradual phase-out project: 2000 Annual Programme Conversion to CFC-free technology in the manufacture of extruded polysterene at Al Hussam Project preparation of projects in the aerosol sector Project preparation in the foam general sector Project preparation in the halon non-recycling Elimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper | (1999) | | | | | | | | | | | | | | | | | |
| 2000 Annual Programme | CFC production sector | ASP | IND | PRO | 31 | INV | 262 | 1,882 | Jul-00 | Sep-00 | Dec-00 | | 11,000,000 | - | 8,584,000 | 78 | 2,416,000 | 2,416,000 |
| 2000 Annual Programme | gradual phase-out project: | | | | | | | | | - | | | | | | | | |
| technology in the manufacture of extruded polysterene at Al Hussam Project preparation of projects in the aerosol sector Project preparation in the foam general sector Project preparation in the halon non-recycling Elimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper | 2000 Annual Programme | | | | | | | | | | | | | | | | | |
| manufacture of extruded polysterene at Al Hussam ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 | Conversion to CFC-free | ASP | JOR | FOA | 22 | INV | 31 | - | May-97 | Dec-99 | Jul-00 | | 347,855 | - | 281,897 | 81 | 65,958 | 65,000 |
| manufacture of extruded polysterene at Al Hussam ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 | technology in the | | | | | | | | | | | | | | | | • | |
| Project preparation of ASP JOR ARS 30 PRP 59 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 - 10,000 sector Project preparation in the ASP JOR FOA 30 PRP 60 - Mar-00 Mar-00 Dec-00 10,000 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 - 10,000 100 100 - 10,000 100 100 100 100 100 100 100 100 | manufacture of extruded | | | | | | | | | | | | | | | | | |
| Project preparation in the aerosol sector | polysterene at Al Hussam | | | | | | | | | | | | | | | | | |
| Project preparation in the foam general sector | Project preparation of | ASP | JOR | ARS | 30 | PRP | 59 | - | Mar-00 | Mar-00 | Dec-00 | | 10,000 | - | 10,000 | 100 | - | _ |
| Sector S | projects in the aerosol | | | | | | | | | | | | Í | | | | | |
| foam general sector Project preparation in the halon non-recycling ASP JOR HAL 30 PRP 61 - Mar-00 Mar-00 Dec-00 15,000 - 15,000 100 | sector | | | | | | | | | | | | | | | | | |
| foam general sector Project preparation in the halon non-recycling ASP JOR HAL 30 PRP 61 - Mar-00 Mar-00 Dec-00 15,000 - 15,000 100 | Project preparation in the | ASP | JOR | FOA | 30 | PRP | 60 | - | Mar-00 | Mar-00 | Dec-00 | | 10,000 | - | 10,000 | 100 | - | - |
| Project preparation in the halon non-recycling ASP JOR HAL 30 PRP 61 - Mar-00 Mar-00 Dec-00 15,000 - 15,000 100 | foam general sector | | | | | | | | | | | | | | | | | |
| halon non-recycling Belimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper MAL FOA 17 INV 59 66 Jul-95 Jul-97 Oct-00 295,000 - 243,297 82 51,703 37,358 | | ASP | JOR | HAL | 30 | PRP | 61 | - | Mar-00 | Mar-00 | Dec-00 | | 15,000 | - | 15,000 | 100 | _ | - |
| Elimination of ODS in the process of EPE/EPS foam sheet at Star Foam Paper | | | | | | | | | | | | | | | .,.,. | | | |
| process of EPE/EPS foam sheet at Star Foam Paper | | ASP | MAL | FOA | 17 | INV | 59 | 66 | Jul-95 | Jul-97 | Oct-00 | | 295,000 | _ | 243,297 | 82 | 51,703 | 37,358 |
| sheet at Star Foam Paper | | | | | 1 - | , | | | 341,0 | / | _ •• • • • | | | | 5,27 | 32 | 21,700 | 27,200 |
| | | | | | | | | | | | | | | | | | | |
| | Products Sdn. Bhd. | | | | | | | | | | | | | | | | | |

| | | | | | 1 | 1 | | | | | | 1 | 1 | | 11 | | |
|----------------------------|-------|-----|-----|----|-----|-----|----|---------|---------|--------|--------|-----------|---|-----------|-----|---------|---------|
| Phase out of CFC-12 MAC | ASP | MAL | REF | 18 | INV | 76 | 76 | Nov-95 | Jan-98 | Oct-00 | | 1,181,553 | - | 729,361 | 62 | 452,192 | 302,000 |
| manufacturing equipment | | | | | | | | | | | | | | | | | |
| and conversion to HFC- | | | | | | | | | | | | | | | | | |
| 134a MAC system | | | | | | | | | | | | | | | | | |
| manufacturing at APM Air | | | | | | | | | | | | | | | | | |
| Conditioners Sdn., Bhd. | | | | | | | | | | | | | | | | | |
| Reduction of the | ASP | MAL | REF | 18 | TAS | 77 | - | Nov-95 | Mar-98 | Nov-00 | | 824,078 | - | 706,017 | 86 | 118,061 | 107,488 |
| consumption of ODSs in | | | | | | | | | | | | | | | | | |
| the commercial air- | | | | | | | | | | | | | | | | | |
| conditioning sector via | | | | | | | | | | | | | | | | | |
| training, recovery and | | | | | | | | | | | | | | | | | |
| recycling of CFC-11 and | | | | | | | | | | | | | | | | | |
| CFC-12 in chillers at | | | | | | | | | | | | | | | | | |
| Mashrae | | | | | | | | | | | | | | | | | |
| Phase-out of CFC-12 MAC | ASP | MAL | REF | 19 | INV | 90 | 41 | May-96 | May-98 | Aug-00 | | 1,468,797 | - | 1,205,546 | 82 | 263,251 | 170,789 |
| manufacturing equipment | | | | | | | | | | | | | | | | | |
| and conversion of HFC- | | | | | | | | | | | | | | | | | |
| 134a MAC manufacturing | | | | | | | | | | | | | | | | | |
| equipment at UCM | | | | | | | | | | | | | | | | | |
| Industrial Corporation | | | | | | | | | | | | | | | | | |
| Berhad | | | | | | | | | | | | | | | | | |
| Manufacture of complete | LAC | MEX | REF | 24 | INV | 78 | - | Mar-98 | Sep-98 | May-00 | May-00 | 2,359,812 | - | 2,344,752 | 99 | 15,060 | - |
| heat exchanger systems for | | | | | | | | | • | • | • | | | | | - | |
| air conditioning equipment | | | | | | | | | | | | | | | | | |
| that use HFC-134a at | | | | | | | | | | | | | | | | | |
| Climas de Mexico | | | | | | | | | | | | | | | | | |
| Phase out of CFC-11 in the | ASP | PAK | FOA | 18 | INV | 07 | 60 | Nov-95 | Apr-99 | Dec-00 | | 493,262 | - | 350,640 | 71 | 142,622 | - |
| manufacture of molded and | | | | | | | | | 1 | | | , | | ĺ | | , | |
| rigid PUF at Razi Sons | | | | | | | | | | | | | | | | | |
| Replacement of CFC-11 | ASP | THA | FOA | 10 | INV | 23 | 45 | Jun-93 | Sep-99 | Jan-00 | Jun-00 | 174,000 | _ | 168,932 | 97 | 5,068 | - |
| with HCFC-141b as a foam | | | | | | | | | ~ · · · | | | 1 ., ., | | , | | 2,000 | |
| blowing agent at Technic | | | | | | | | | | | | | | | | | |
| Foam, Ltd. | | | | | | | | | | | | | | | | | |
| Conversion to CFC-free | ASP | THA | FOA | 23 | INV | 76 | 11 | Nov-97 | Dec-99 | Apr-00 | Jun-00 | 88,500 | _ | 88,500 | 100 | - | _ |
| technology in the | - 101 | | | | | , 5 | | 1.0. 77 | 200)) | p. 00 | | 23,200 | | 23,200 | 100 | | |
| manufacture of rigid | | | | | | | | | | | | | | | | | |
| polyurethane foam | | | | | | | | | | | | | | | | | |
| (thermoware) at Siam | | | | | | | | | | | | | | | | | |
| Chaicharoen Industry Co. | | | | | | | | | | | | | | | | | |
| Ltd. | | | | | | | | | | | | | | | | | |
| | l | | l | | 1 | | | | | | | | | | | | |

| Conversion to CRC-free technology in the manufacture of rigid polyurethane flour and flower of the manufacture of rigid polyurethane flour and the manufacture of rigid polyurethane flour at Part State of the manufacture of rigid polyurethane flour at Part State of the manufacture of rigid polyurethane flour at Part State of the CRC-14 to HCRC-14 to | | | | | | | | | | | | | | | | | | |
|--|------------------------------|-----|-----|---------|----|-----|-----|----|--------|--------|--------|--------|---------|---|---------|-----|--------|---|
| manufacture of rigid polyurethane foam (thermoware) at General Injection Co. Ltd. Conversion of CFC-12 ASP THA REF 23 INV 82 26 Nov-97 Apr-00 Aug-00 Sep-00 186,545 - 178,287 96 8,258 - 178,287 140 Aug-00 Aug-00 Aug-00 Aug-00 Sep-00 186,545 - 178,287 96 8,258 - 178,287 Aug-00 Aug-00 Aug-00 Aug-00 Sep-00 186,545 - 178,287 96 8,258 - 178,287 Aug-00 Aug-00 Aug-00 Aug-00 Sep-00 Aug-00 Aug-0 | Conversion to CFC-free | ASP | THA | FOA | 23 | INV | 77 | 15 | Nov-97 | Jan-00 | Jun-00 | Jul-00 | 120,580 | - | 120,580 | 100 | - | - |
| polyurchane four (hermoware) at General Injection Co. 14d. Conversion of CFC-12 refrigerant to HFC-134a, ASP and CFC-11 to HCFC-14b as the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion of CFC-12 conservation of CFC-12 to HCFC-14b as the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion for CFC-12 to HCFC-14b as the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion to CFC-free to the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion to CFC-free to the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion for CFC-12 consultant Supply Co. Ltd. Conversion for CFC-13b as the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion to CFC-free to the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion to CFC-free to the blowing agent for foam insulation at Salaharin Intercol Co. Ltd. Conversion foam CFC-11 to HCFC-14b to the CFC-14b | | | | | | | | | | | | | | | | | | |
| Identification Co. Lid. Conversion of CFC-12 ASP THA REF 23 INV 82 26 Nov-97 Apr-00 Aug-00 Sep-00 186,545 - 178,287 96 8,258 - 178,287 141 1 | | | | | | | | | | | | | | | | | | |
| Injection Co. Ltd. | | | | | | | | | | | | | | | | | | |
| Conversion of CFC-12 ASP THA REF 23 INV 82 26 Nov-97 App-00 Aug-00 Sep-00 186,545 - 178,287 96 8,258 Aug-00 Aug | | | | | | | | | | | | | | | | | | |
| refrigerant to HFC-134a, and CFC-11 to HGFC-141b as the blowing agent for foam insulation in the manufacture of Water Coolers at Siam Cooler Conversion to GFC-12 | Injection Co. Ltd. | | | | | | | | | | | | | | | | | |
| ASP THA FOA 27 INV 108 26 Mar-99 Jun-00 Sep-00 | | ASP | THA | REF | 23 | INV | 82 | 26 | Nov-97 | Apr-00 | Aug-00 | Sep-00 | 186,545 | - | 178,287 | 96 | 8,258 | - |
| 141 b as the blowing agent for foam instalation in the manufacture of Water Coolers at Siam Cooler Core-ration of CFC-12 commercial refrigeration to HEC-134, and CFC-11 to HEC-134, and CFC-134, and C | | | | | | | | | | | | | | | | | | |
| Mar-99 Mar-90 M | | | | | | | | | | | | | | | | | | |
| Conversion of CFC-12 Commercial refrigeration to CFC-12 Commercial refrigeration to CFC-13 Conversion of CFC-14 CFC-134 | | | | | | | | | | | | | | | | | | |
| Coolers at Siam Cooler Conversion of CFC-12 Commercial refrigeration to HFC-134a, and CFC-11 to HE/CFC-141b as the blowing agent for foam insulation at Sahakam Intercol (Co. Ltd.) Conversion to CFC-free technology in the manufacture of cold store polyurethane panels at Somerville Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HE/CFC-141b technology in the manufac | | | | | | | | | | | | | | | | | | |
| Conversion of CFC-12 ASP THA REF 23 INV 85 5 Nov-97 Mar-00 Jul-00 Sep-00 86,697 - 86,697 100 - HFC-134a, and CFC-11 to HCFC-141b as the blowing agent for foam insulation at Sahakam Intercool Co. Ltd. | manufacture of Water | | | | | | | | | | | | | | | | | |
| Exempericial refrigeration to HFC-141b as the blowing agent for foam insulation at Sahakam Intercol Co. Ltd. S | Coolers at Siam Cooler | | | | | | | | | | | | | | | | | |
| HEC-134a, and CFC-11 to HCCFC-141 batch blowing agent for foam insulation at Sahakara Intercool Co. Ltd. Conversion to CFC-free technology in the manufacture of cold store polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the Manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the Man | | ASP | THA | REF | 23 | INV | 85 | 5 | Nov-97 | Mar-00 | Jul-00 | Sep-00 | 86,697 | - | 86,697 | 100 | - | - |
| HCFC-141b as the blowing agent for foam insulation at Sahakam Intercool Co. Ltd. Conversion to CFC-free technology in the manufacture of cold store polyurethane panels at Somerville Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP to HAI t | | | | | | | | | | | | | | | | | | |
| agent for foam insulation at Sahakarn Intercool Co. Ltd. Conversion to CFC-free technology in the manufacture of cold store polyurethane panels at Somerville Conversion from CFC-11 ASP THA FOA 27 INV 108 26 Mar-99 Jun-00 Sep-00 Oct-00 181,883 - 173,133 95 8,750 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 ASP THA FOA 27 INV 110 23 Mar-99 Sep-00 Aug-00 Oct-00 164,366 - 151,866 92 12,500 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 Nov-00 80,649 - 74,149 92 6,500 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at PLB Containers Supply Co. Ltd. Conversion from CFC-11 ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 Nov-00 Nov-00 80,649 - 74,149 92 6,500 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at PLB Containers Supply Co. Ltd. Conversion from CFC-11 ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 - 8,000 100 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at PLB Containers Supply Co. Ltd. Preparation of projects in ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at PLB Containers Supply Co. Ltd. Preparation of projects in ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 - 100 HCFC-141b technology in the manufacture of rigid polyurethane foam at PLB Containers Supply Co. Ltd. Preparation of projects in ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 - 100 - 100 HCFC-141b technology in the manufacture of rigid polyurethane Containers Supply Co. Ltd. Preparation of projects in ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 - 100 - 100 HCFC-141b technology in the manufacture of rigid polyurethane Containers Supply Co. Ltd. | HFC-134a, and CFC-11 to | | | | | | | | | | | | | | | | | |
| Sahakam Intercool Co. Ltd. Sahakam Intercool Co. Ltd. Sahakam Intercool Co. Ltd. Sahakam Intercool Co. Ltd. Sahakam Intercool Co. CTC-free technology in the manufacture of cold store polyurethane panels at Somerville Sahakam Intercool Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Saparam Intercool Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Saparam Intercool Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Saparam Intercool Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Saparam Intercool Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Conversion of projects in ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 100 - 1 | HCFC-141b as the blowing | | | | | | | | | | | | | | | | | |
| Conversion to CFC-free technology in the manufacture of cold store polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the HCFC | agent for foam insulation at | | | | | | | | | | | | | | | | | |
| technology in the manufacture of cold store polymethane panels at Somerville Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polymethane foam at P.E. Conversion from CFC-11 to HCFC-141b technology in the MCFC-141b technology in the MCFC-1 | Sahakarn Intercool Co. Ltd. | | | | | | | | | | | | | | | | | |
| manufacture of cold store polyurethane panels at Somerville Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-14lb technology Co. Ltd. Co. Ltd. Co. Ltd. Co. Ltd. Co. Ltd. Co. Ltd. Co. Lt | Conversion to CFC-free | ASP | THA | FOA | 25 | INV | 95 | 18 | Jul-98 | Apr-00 | Feb-00 | Apr-00 | 141,957 | - | 120,000 | 85 | 21,957 | - |
| Dolyurethane panels at Somerville Some | technology in the | | | | | | | | | | | | | | | | | |
| Somerville Conversion from CFC-11 ASP THA FOA 27 INV 108 26 Mar-99 Jun-00 Sep-00 Oct-00 181,883 - 173,133 95 8,750 - 173,133 95 8,7 | manufacture of cold store | | | | | | | | | | | | | | | | | |
| Conversion from CFC-11 ASP THA FOA 27 INV 108 26 Mar-99 Jun-00 Sep-00 Oct-00 181,883 - 173,133 95 8,750 - 170,133 180,13 | polyurethane panels at | | | | | | | | | | | | | | | | | |
| to HCFC-141b technology in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Conversion of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 | Somerville | | | | | | | | | | | | | | | | | |
| in the manufacture of rigid polyurethane foam at P.E. Containers Supply Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 Nov-00 80,649 - 74,149 92 6,500 - to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 100 - | | ASP | THA | FOA | 27 | INV | 108 | 26 | Mar-99 | Jun-00 | Sep-00 | Oct-00 | 181,883 | - | 173,133 | 95 | 8,750 | - |
| Dolyurethane foam at P.E. Containers Supply Co. Ltd. SASP THA FOA 27 INV 110 23 Mar-99 Sep-00 Aug-00 Oct-00 164,366 - 151,866 92 12,500 - | to HCFC-141b technology | | | | | | | | | | | | | | | | | |
| Containers Supply Co. Ltd. Conversion from CFC-11 ASP THA FOA 27 INV 110 23 Mar-99 Sep-00 Aug-00 Oct-00 164,366 - 151,866 92 12,500 - 151,866 Oct-00 164,366 Oct-00 I64,366 Oct-00 Oct-00 Oct-00 I64,366 Oct-00 Oct-00 Oct-00 I64,366 Oct-00 | | | | | | | | | | | | | | | | | | |
| Conversion from CFC-11 | | | | | | | | | | | | | | | | | | |
| to HCFC-141b technology in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 Nov-00 80,649 - 74,149 92 6,500 - to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 100 | Containers Supply Co. Ltd. | | | | | | | | | | | | | | | | | |
| in the manufacture of rigid polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 100 - | Conversion from CFC-11 | ASP | THA | FOA | 27 | INV | 110 | 23 | Mar-99 | Sep-00 | Aug-00 | Oct-00 | 164,366 | - | 151,866 | 92 | 12,500 | - |
| polyurethane foam at Siam M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 S,000 - 8,000 - 8,000 - 0 S,000 - 0 | to HCFC-141b technology | | | | | | | | | | | | | | | | | |
| M.P. Co. Ltd. Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 No | | | | | | | | | | | | | | | | | | |
| Conversion from CFC-11 ASP THA FOA 27 INV 115 9 Mar-99 Aug-00 Nov-00 Nov-00 80,649 - 74,149 92 6,500 - to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 - 8,000 - 6 | polyurethane foam at Siam | | | | | | | | | | | | | | | | | |
| to HCFC-141b technology in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the manufacture of rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 - 8,000 | | | | | | | | | | | | | | | | | | |
| in the manufacture of rigid polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the manufacture of rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 - 8,000 | | ASP | THA | FOA | 27 | INV | 115 | 9 | Mar-99 | Aug-00 | Nov-00 | Nov-00 | 80,649 | - | 74,149 | 92 | 6,500 | - |
| polyurethane foam at Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 | to HCFC-141b technology | | | | | | | | | | | | | | | | | |
| Plastmate Industry Co. Ltd. Preparation of projects in halon non-recycling Preparation of projects in the rigid polyurethane ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 | | | | | | | | | | | | | | | | | | |
| Preparation of projects in halon non-recycling ASP THA HAL 30 PRP 125 - Mar-00 Mar-00 Dec-00 8,000 - 8,000 - 8,000 - | | | | | | | | | | | | | | | | | | |
| halon non-recycling Preparation of projects in the rigid polyurethane ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 | Plastmate Industry Co. Ltd. | | | | | | | | | | | | | | | | | |
| Preparation of projects in the rigid polyurethane ASP THA FOA 30 PRP 127 - Mar-00 Mar-00 Dec-00 30,000 - 30,000 - 30,000 | Preparation of projects in | ASP | THA | HAL | 30 | PRP | 125 | - | Mar-00 | Mar-00 | Dec-00 | | 8,000 | - | 8,000 | 100 | - | - |
| the rigid polyurethane | halon non-recycling | | | <u></u> | L | | | | | | | | | | | | | |
| the rigid polyurethane | Preparation of projects in | ASP | THA | FOA | 30 | PRP | 127 | - | Mar-00 | Mar-00 | Dec-00 | _ | 30,000 | - | 30,000 | 100 | - | - |
| subsector | | | | | | | | | | | | | | | | | | |
| | subsector | | | | | | | | | | | | | | | | | |

| Conversion to non-CFC | EUR | TUR | FOA | 24 | INV | 41 | 274 | Mar-98 | Dec-98 | May-00 | May-00 | 1,141,500 | _ | 990,000 | 87 | 151,500 | - |
|------------------------------|-----|-----|-----|----|-----|----|--------|--------|--------|--------|--------|------------|---------|------------|-----|------------|-----------|
| foam blowing agents in the | | | | | | | | | | - | | | | | | | |
| production of polyurethane | | | | | | | | | | | | | | | | | |
| (PU) insulation panels, | | | | | | | | | | | | | | | | | |
| spray/in situ foam and one | | | | | | | | | | | | | | | | | |
| component foams at | | | | | | | | | | | | | | | | | |
| Izopoli Yapi Elemantari | | | | | | | | | | | | | | | | | |
| Taahhuet Sanayii ve | | | | | | | | | | | | | | | | | |
| Ticaret Lt | | | | | | | | | | | | | | | | | |
| 1 3 | EUR | TUR | SOL | 25 | INV | 49 | 12 | Jul-98 | Mar-00 | Oct-00 | Oct-00 | 415,312 | - | 415,312 | 100 | - | - |
| enterprises for phaseout of | | | | | | | | | | | | | | | | | |
| ODS used as solvents | | | | | | | | | | | | | | | | | |
| Conversion of CFC-12 | AFR | ZIM | REF | 20 | INV | 06 | 3 | Oct-96 | Mar-99 | Sep-00 | Nov-00 | 43,382 | - | 43,382 | 100 | - | - |
| commercial refrigeration | | | | | | | | | | | | | | | | | |
| equipment production to | | | | | | | | | | | | | | | | | |
| HFC-134a and HCFC-22 | | | | | | | | | | | | | | | | | |
| refrigerant, and CFC-11 to | | | | | | | | | | | | | | | | | |
| HCFC-141b as the blowing | | | | | | | | | | | | | | | | | |
| agent for foam insulation at | | | | | | | | | | | | | | | | | |
| Ref-air Refrigeration | | | | | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | 18,324 | | | | | 74,015,464 | 183,586 | 54,713,688 | 74 | 19,485,362 | 5,008,544 |

III. GLOBAL AND REGIONAL PROJECT HIGHLIGHTS

A. Global Projects

8. The World Bank has no outstanding global projects.

B. Regional Projects

9. The World Bank has no outstanding regional projects.

IV. PERFORMANCE INDICATORS

A. Agency Business Plan Performance Goals

10. Table IV.1 summarizes the World Bank's performance relative to indicators established for the business planning process.

Table IV.1: World Bank Business Plan Performance Goals

WORLD BANK PERFORMANCE INDICATORS 1998 1994 1999 Indicator Measure Unit 1992 1993 1995 1996 1997 2000 Overall 34 29 12 Delivery Speed Signing Mos. 43 21 15 13 11 18 Mos. 48 41 33 27 22 20 18 13 13 25 First Disb 37 24 44 Last Disb Mos. 52 58 55 47 45 24 16 ODP Phaseout Amount Percentage 107 124 116 91 86 54 80 85 79 66 88 Mos. 58 56 45 46 38 30 25 18 15 39 Speed Cost Effective Average US\$ per 7.10 1.16 10.01 3.68 7.23 8.56 2.06 2.55 2.51 3.35 3.05 Kg ODP

Note: "Cost of Preparation" as a performance indicators not included in this table. As it is an annualized cost, it will be reported on in the next progress report as of December 31, 1996.

- 1. Projects approved in 1996 (at the 19th meeting) were not funded until after the reporting period was completed. Therefore, implementation of these projects did not begin until after June 30, 1996.
- 2. Prior to November 1995, a Financial Intermediary fee of 3 percent (on average)was included in the cost of the project.

B. Cumulative Completed Investment Projects

11. Since 1991, the World Bank's cumulative total of completed investment projects has grown to 294, resulting in 104,911MT of ODP phaseout. Out of a total of US\$262,163,102 of approved Multilateral Fund financing for completed projects, 88 percent of funds has been disbursed. The average number of months from approval to first disbursement has been 25, the average number of months from approval to completion has been 37, at an average cost-effectiveness of US\$2.24/kg. These averages include projects prepared both before and after initiation of the Umbrella Grant Agreement approval process. Table IV.1 illustrates the improvements made in these indicators over the past two years.

Table IV.2: Cumulative Completed Investment Projects

| Item | Number of Projects | Approved Funds plus Adjustment (US\$) | Percent of Funds Disbursed | Average Number of Months from Approval to First Disbursement | Average Number of Months from Approval to Completion | Overall Cost- Effectiveness to the Fund (US\$/kg) |
|---------------------------------------|--------------------------|--|----------------------------------|--|--|--|
| GRAND TOTAL | 294 | 262,163,102 | 88 | 25 | 37 | 2.24 |
| Region | • | | | | | |
| Africa | 8 | 3,652,038 | 82 | 33 | 42 | 6.29 |
| Asia and the Pacific | 212 | 212,365,854 | 87 | 24 | 36 | 1.91 |
| Europe | 22 | 15,234,316 | 96 | 12 | 21 | 5.18 |
| Latin America and Caribbean | 52 | 30,910,894 | 88 | 34 | 46 | 10.76 |
| Sector | | | | | | |
| Solvents | 26 | 9,339,825 | 95 | 31 | 33 | 14.24 |
| Halons | 6 | 34,650,000 | 78 | 20 | 39 | 0.57 |
| Aerosols | 18 | 9,948,577 | 101 | 26 | 41 | 0.56 |
| Foams | 112 | 40,754,344 | 93 | 24 | 37 | 4.08 |
| Refrigeration | 121 | 104,920,183 | 89 | 25 | 39 | 9.10 |
| Other | 2 | 5,059,360 | 97 | 28 | 41 | 12.14 |
| Multi-sector | 2 | 58,599 | 0 | 0 | 0 | 0.00 |
| Production | 6 | 57,037,120 | 85 | 13 | 15 | 2.82 |
| Sterilants | 1 | 395,095 | 100 | 3 | 18 | 19.10 |
| Implementation Character | ristics | | | | | |
| National | 294 | 262,163,102 | 88 | 25 | 37 | 2.24 |
| Time or Objective-sensitiv | e Accounts | | | | | |
| Objective Sensitive | 294 | 262,163,102 | 88 | 25 | 37 | 2.24 |
| Disbursement method | | | | | | |
| Disbursement after Completion | 23 | 11,009,997 | 99 | 29 | 24 | 9.32 |
| Disbursement during Implementation | 257 | 244,668,318 | 87 | 24 | 38 | 2.12 |
| Disb. for Retroactive Projects | 14 | 6,484,787 | 95 | 0 | 0 | 5.36 |

C. Cumulative Completed Non-Investment Projects

12. Since 1991, the World Bank's cumulative total of completed non-investment projects has grown to 264. Out of a total of US\$35,716,089 of approved Multilateral Fund financing, 100 percent of funds has been disbursed. As these are non-investment projects, funds are usually made available very quickly, thus the average number of months from approval to first disbursement has been 6, the average number of months from approval to completion has been 17.

Table IV.3: Cumulative Completed Non-Investment Projects

| Item | Number of Projects | Approved Funds plus Adjustment (US\$) | Percent of Funds Disbursed | Average Number of Months from Approval to First Disbursement | Average Number of Months from Approval to Completion |
|------------------------------------|-----------------------|---|----------------------------------|---|--|
| GRAND TOTAL | 264 | 35,716,089 | 100 | 6 | 17 |
| Region | | | | | |
| Africa | 26 | 1,958,081 | 100 | 5 | 17 |
| Asia and the Pacific | 114 | 16,763,901 | 100 | 5 | 17 |
| Europe | 21 | 2,066,456 | 100 | 7 | 17 |
| Global | 13 | 5,969,736 | 100 | 2 | 20 |
| Latin America and Caribbean | 90 | 8,957,915 | 100 | 8 | 16 |
| Sector | | | | | |
| Solvents | 2 | 381,754 | 100 | 10 | 34 |
| Halons | 5 | 306,000 | 100 | 4 | 11 |
| Aerosols | 3 | 382,662 | 100 | 11 | 33 |
| Foams | 10 | 1,916,013 | 100 | 9 | 19 |
| Refrigeration | 24 | 7,081,905 | 100 | 23 | 32 |
| Several | 211 | 24,638,963 | 100 | 3 | 14 |
| Multi-sector | 1 | 53,792 | 100 | 56 | 58 |
| Production | 3 | 710,000 | 100 | 8 | 21 |
| Fumigants | 4 | 145,000 | 100 | 6 | 12 |
| Process agent | 1 | 100,000 | 100 | 0 | 9 |
| Implementation Chara | cteristics | | | | |
| Agency | 223 | 23,207,607 | 100 | 2 | 11 |
| National | 41 | 12,508,482 | 100 | 29 | 45 |
| Time or Objective-sens | itive Account | s | | | |
| Time Sensitive | 149 | 17,408,670 | 100 | 1 | 10 |
| Objective Sensitive | 115 | 18,307,419 | 100 | 13 | 25 |
| Disbursement method | | | | | |
| Disbursement after Completion | 5 | 1,778,155 | 100 | 14 | 35 |
| Disbursement during Implementation | 259 | 33,937,934 | 100 | 6 | 16 |

D. Cumulative Ongoing Investment Projects

13. Since 1991, the World Bank's cumulative total of ongoing investment projects has grown to 170. Out of a total of US\$118,771,973 of approved Multilateral Fund financing, 38 percent of funds has been disbursed. The average number of months from approval to first disbursement has been 17, the average number of months from the end of the reporting period to current expected completion is 29, with an average cost-effectiveness of US\$6.38/kg.

Table IV.4: Cumulative Ongoing Investment Projects

| Item | Number of Projects | Approved Funds plus Adjustment (US\$) | Percent of Funds Disbursed | Average Number of Months from Approval | Average Number of Months Currently Expected until Completion | Overall Cost- Effectiveness to the Fund (US\$/kg) |
|---------------------------------------|--------------------------|--|----------------------------------|---|--|--|
| GRAND TOTAL | 170 | 118,771,973 | 38 | 17 | 29 | 6.38 |
| Region | | | | | | |
| Africa | 8 | 1,679,934 | 20 | 1 | 37 | 6.60 |
| Asia and the Pacific | 129 | 98,373,918 | 36 | 18 | 28 | 5.74 |
| Europe | 6 | 1,803,552 | 0 | -5 | 35 | 8.18 |
| Latin America and Caribbean | 27 | 16,914,569 | 54 | 20 | 26 | 16.94 |
| Sector | | | | | | |
| Solvents | 3 | 458,883 | 0 | 1 | 28 | 21.44 |
| Halons | 6 | 6,485,736 | 0 | 3 | 49 | 1.97 |
| Aerosols | 8 | 2,353,481 | 8 | 16 | 27 | 1.22 |
| Foams | 93 | 38,823,981 | 14 | 13 | 31 | 5.11 |
| Refrigeration | 55 | 65,638,412 | 57 | 27 | 23 | 13.28 |
| Multi-sector | 2 | 3,800,000 | 53 | 28 | 24 | 10.44 |
| Fumigants | 2 | 845,480 | 0 | -3 | 35 | 10.57 |
| Process agent | 1 | 366,000 | 64 | 5 | 15 | 0.98 |
| Implementation Charac | teristics | | | | | |
| National | 170 | 118,771,973 | 38 | 17 | 29 | 6.38 |
| Time or Objective-sensi | tive Accoun | ts | | | | |
| Objective Sensitive | 170 | 118,771,973 | 38 | 17 | 29 | 6.38 |
| Disbursement method | | | | | | |
| Disbursement during Implementation | 169 | 118,707,767 | 38 | 17 | 29 | 6.38 |
| Disb. for Retroactive Projects | 1 | 64,206 | 0 | 5 | 24 | 7.83 |

E. Cumulative Ongoing Non-Investment Projects

15. Since 1991, the World Bank's cumulative total of ongoing non-investment projects has grown to 49. Out of a total of US\$6,286,498 of approved Multilateral Fund financing, 44 percent of funds has been disbursed. The average number of months from approval to first disbursement has been 7, the average number of months from the end of the reporting period to current expected completion is 32.

Table IV.5: Cumulative Ongoing Non-Investment Projects

| Item | Number of Projects | Approved Funds plus Adjustment (US\$) | Percent of Funds Disbursed | Average Number of Months from Approval | Average Number of Months Currently Expected until Completion |
|------------------------------------|-----------------------|---|----------------------------------|---|---|
| GRAND TOTAL | 49 | 6,286,498 | 44 | 7 | 32 |
| Region | | | | | |
| Africa | 2 | 201,700 | 42 | 3 | 43 |
| Asia and the Pacific | 23 | 3,632,004 | 53 | 10 | 28 |
| Europe | 7 | 558,000 | 57 | 11 | 29 |
| Global | 3 | 232,000 | 70 | 0 | 25 |
| Latin America and Caribbean | 14 | 1,662,794 | 16 | 1 | 37 |
| Sector | | | | | |
| Solvents | 5 | 77,000 | 91 | 0 | 27 |
| Halons | 3 | 791,820 | 1 | 0 | 45 |
| Aerosols | 1 | 8,000 | 100 | 0 | 24 |
| Foams | 6 | 444,000 | 76 | 0 | 25 |
| Refrigeration | 11 | 1,602,000 | 41 | 12 | 32 |
| Several | 17 | 2,351,304 | 62 | 11 | 31 |
| Production | 1 | 25,000 | 100 | 0 | 24 |
| Fumigants | 5 | 987,374 | 18 | 1 | 40 |
| Implementation Char | acteristics | | | | |
| Agency | 34 | 2,035,138 | 76 | 2 | 27 |
| National | 15 | 4,251,360 | 28 | 19 | 41 |
| Time or Objective-ser | nsitive Accoun | nts | | | |
| Objective Sensitive | 49 | 6,286,498 | 44 | 7 | 32 |
| Disbursement method | I | | - | - | |
| Disbursement during Implementation | 49 | 6,286,498 | 44 | 7 | 32 |

V. STATUS OF AGREEMENTS AND PROJECT PREPARATION (WHERE APPLICABLE), BY COUNTRY

A. Agreements to be Signed/Executed/Finalized and When They Will be Ready for Disbursing

16. The World Bank has no Grant Agreements to be signed, executed or finalized.

B. Project Preparation by Country, Approved Amount, and Amount Disbursed

17. A list of active World Bank project preparation activities is presented in the table below. Total funds approved for these projects is US\$2,342,588 and total funds disbursed to date amount to US\$1,556,138, or 78 percent of total approved funding plus adjustments to date. Planned additional commitments for these projects are US\$429,000.

Table V.1: Active Project Preparation

| Region | | Project | t Nui | mber | | Title | First Disb. Date | Approved Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | Percent of Funds Disb. | Balance (US\$) | Planned Commitments in Current Year (US\$) |
|--------|-----|---------|-------|------|-----|--|------------------------|-------------------------------|----------------|---------------------------|---------------------------------|-------------------|---|
| LAC | ARG | FUM | 30 | PRP | 100 | Preparation of an investment project in methyl bromide sector | | 10,000 | | | 0 | 10,000 | 10,000 |
| LAC | ARG | FOA | 30 | PRP | 108 | Project preparation in the rigid polyurethane foam sub-sector | | 7,000 | | | 0 | 7,000 | 7,000 |
| LAC | ARG | SOL | 30 | PRP | 109 | Project preparation in the solvent (TCA) sub-sector | | 7,000 | | | 0 | 7,000 | 7,000 |
| LAC | CHI | FUM | 30 | PRP | | Preparation of investment project in the methyl bromide sector | | 10,000 | | | 0 | 10,000 | 10,000 |
| LAC | COL | REF | 30 | PRP | | Preparation of projects in the commercial refrigeration subsector | | 20,000 | | | 0 | 20,000 | 20,000 |
| ASP | CPR | FOA | 30 | PRP | 350 | Project preparation in the foam (general) sector | Mar-00 | 300,000 | | 200,000 | 67 | 100,000 | 100,000 |
| ASP | CPR | REF | 30 | PRP | 351 | Project preparation in the commercial refrigeration sub- sector | Mar-00 | 60,000 | | 40,000 | 67 | 20,000 | 20,000 |
| GLO | GLO | SEV | 27 | PRP | 185 | Unallocated project preparation funds | Dec-00 | 162,000 | | 162,000 | 100 | | |
| GLO | GLO | SEV | 29 | PRP | 191 | Project preparation advance for 2000 | | 357,450 | (357,450) | | 0 | | |
| GLO | GLO | SEV | 30 | PRP | 203 | Project preparation (unallocated) | | 70,000 | | | 0 | 70,000 | 70,000 |
| ASP | IDS | FOA | 27 | PRP | | Preparation of projects in the foam sector | Jun-99 | 100,000 | | 100,000 | 100 | | |
| ASP | IND | SEV | 27 | PRP | | Preparation of projects in the refrigeration, solvent and CFC- halon production sectors | Jun-99 | 220,000 | | 220,000 | 100 | | |
| ASP | IND | SOL | 30 | PRP | | Preparation of projects in the solvent general sector | Mar-00 | 35,000 | | 35,000 | 100 | | |
| ASP | IND | PRO | 30 | PRP | 249 | Preparation of projects in halon production sector | Mar-00 | 25,000 | | 25,000 | 100 | | |

| ASP | IND | REF | 30 | PRP | 255 | Preparation of projects in the industrial and | Mar-00 | 150,000 | 50,000 | 33 | 100,000 | 100,000 |
|-----|-----|-----|----|-----|-----|---|--------|---------|---------|-----|---------|---------|
| | | | | | | chiller refrigeration subsectors | | | | | | |
| ASP | MAL | SEV | 27 | PRP | 121 | Preparation of projects in the solvent sector and a national CFC phase out programme | Mar-99 | 95,000 | 65,000 | 68 | 30,000 | 30,000 |
| ASP | | REF | | PRP | 132 | Project preparation for MACs and compressors project category | | 10,000 | | 0 | 10,000 | 10,000 |
| LAC | MEX | REF | 24 | PRP | 77 | Project preparation in the commercial refrigeration (end users) conversion projects | Mar-99 | 80,000 | 80,000 | 100 | | |
| LAC | MEX | | | PRP | 93 | Preparation of projects in the commercial refrigeration sector | Mar-00 | 20,000 | 10,000 | 50 | 10,000 | 10,000 |
| ASP | PAK | SEV | 27 | PRP | 33 | Preparation of projects in the foam and refrigeration sectors | Mar-99 | 66,000 | 66,000 | 100 | | |
| ASP | PAK | REF | 30 | PRP | 35 | Preparation of projects in the foam flexible subsector | Mar-00 | 9,000 | 9,000 | 100 | | |
| ASP | PAK | REF | 30 | PRP | 36 | Project preparation in the refrigeration sector (railway) | Mar-00 | 16,000 | 16,000 | 100 | | |
| ASP | PAK | FOA | 30 | PRP | | Project preparation in the rigid polyurethane foam | Mar-00 | 12,000 | 12,000 | 100 | | |
| ASP | THA | SEV | 16 | PRP | 43 | Preparation/superv ision of investment projects (1995) | Mar-95 | 267,138 | 267,138 | 100 | | |
| ASP | THA | SEV | 27 | PRP | | Preparation of projects in the foam, halon, commercial refrigeration enduse and solvent sectors | Jun-99 | 141,000 | 111,000 | 79 | 30,000 | 30,000 |
| ASP | ТНА | SOL | 30 | PRP | | Preparation of projects in the solvent (TCA) sector | Mar-00 | 10,000 | 10,000 | 100 | | |
| AFR | TUN | SOL | 27 | PRP | | Preparation of a project in the solvent sector | Mar-99 | 15,000 | 15,000 | 100 | | |

| Sub-Total Administr Grand To | JRU I | | | PRP | 32 | projects in the solvent (TCA) sector Preparation of an investment project in the domestic refrigeration sector | Mar-00 | 10,000 2,342,588 304,536 | (357,450) | 10,000 1,556,138 1,556,138 | 100 78% | 429,000 | 429,000 |
|------------------------------|-------|-----|----|-----|----|---|--------|--------------------------------|-----------|----------------------------------|------------|---------|---------|
| Sub-Total | JRU I | | | PRP | 32 | solvent (TCA) sector Preparation of an investment project in the domestic | Mar-00 | 2,342,588 | | ŕ | | 429,000 | 429,000 |
| LAC U | | REF | 30 | PRP | 32 | solvent (TCA) sector Preparation of an investment project in the domestic | Mar-00 | 10,000 | | 10,000 | 100 | | |
| LAC U | | REF | 30 | PRP | 32 | solvent (TCA) sector | Mar-00 | 10,000 | | 10,000 | 100 | | |
| | | | | | | | | | | | | | |
| EUR T | ΓUR | SOL | 30 | PRP | 64 | Preparation of projects in the | Mar-00 | 10,000 | | 10,000 | 100 | | |
| EUR T | TUR] | FOA | 30 | PRP | 63 | Preparation of projects in the rigid polyurethane foam subsector | Mar-00 | 10,000 | | 10,000 | 100 | | |
| EUR T | | | | PRP | | Preparation of projects for the halon recycling | Mar-00 | 15,000 | | 10,000 | 67 | 5,000 | 5,000 |
| EUR T | TUR] | FOA | 30 | PRP | | Preparation of project proposal in the foam general sector | Mar-00 | 15,000 | | 15,000 | 100 | | |
| EUR T | | | | PRP | | Preparation of investment projects in the aerosol sector | Mar-00 | ŕ | | 8,000 | 100 | | |

VI. ADMINISTRATIVE ISSUES (OPERATIONAL, POLICY, FINANCIAL, AND OTHER ISSUES)

A. Meetings Attended

18. Table VI.1 indicates the meetings attended by World Bank staff on all Montreal Protocol related work.

MP Meetings attended by World Bank Staff Dates City Meetings Attended 2/07-2/11/00 Montreal, Canada Inter-agency Meeting 3/20-3/22/00 Annapolis, USA **Environment Forum** 3/27-3/31/00 Montreal, Canada 30th ExCom Meeting 5/1/00 Washington, DC, USA OORG Foams Working Group Meeting 5/2/00 Washington, DC, USA 16th OORG Meeting 5/03-5/04/00 Washington, DC, USA Financial Agents Workshop 7/01-7/07/00 31st ExCom Meeting Geneva, Switzerland Implementation Committee Meeting 7/08-7/09/00 Geneva, Switzerland 7/10-7/14/00 Geneva, Switzerland OEWG Meeting 9/06-9/08/00 Montreal, Canada Inter-agency Coordination Meeting 9/14-9/16/00 Beijing, China UNEP China Training Strategy 10/09-10/13/00 SEAN Network ODS Officers Meeting Laos, Vietnam 10/14-10/17/00 South Asia Network Officers Meeting Dalian, China 11/2/00 Washington, DC, USA OORG Foams Working Group Meeting 11/2/00 Washington, DC, USA OORG Compressor Meeting 11/3/00 Washington, DC, USA 17th OORG Meeting 12/04-12/10/00 Ouagadougou, Burkina Faso 32nd ExCom Meeting

Table VI.1: MP Meetings Attended by World Bank Staff

B. Implementing Agency and Other Cooperation

Ouagadougou, Burkina Faso

19. Cooperation with Implementing Agencies was seen in 2000 in the implementation of several World Bank projects. For example, UNEP is providing technical assistance to India under the World Bank's CFC Production Sector Phaseout Project. Representatives of UNIDO and UNDP attended World Bank regional meetings as well as the World Bank's two OORG meetings in 2000. In a time of transition to a greater number of sector and umbrella projects, the World Bank, has in 2000, stepped up its efforts to work closely with national governments to develop projects which are tailored to particular countries. Proposals for national CFC phaseout strategies (NCFCS) in Thailand and Malaysia have neared completion after intensive work in data collection, national interagency coordination and policy conceptualization. The Bahamas and the Philippines are following suit by dialoguing with the World Bank on possible approaches to a NCFCS.

Meeting of the Parties of the Montreal Protocol

C. Adjustments

12/11-12/15/00

20. This table summarizes the savings (including cancellations and transfers) for the period of January 1, 2000 to December 31, 2000 of which US\$7,197,114 has already been reported and returned to the Multilateral Fund.

Table VI.2: Adjustments

| D. t. (TSt.) | G . F | ъ . | | | | | | ijustment | | | . | 4 3 7 | | | ODE | - n | T | D (1 | |
|--|------------------------------------|--|----------------------------|----------------|---------------------------|-------------------------|---------|--|--------|-----|----------|-------|-----|----|-------------------------------|------------------|------------------------|--------------------------------------|----------------------------------|
| Project Title | Savings For Reporting Period | | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | | | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
| Interclima S.A.Conversion of the production of CFC-12 heat exchangers for MAC to HFC-134a refrigerant | 354,864 | Completed. PCR was sent to ExCom. (Remaining "balance" actually disbursement to FA.) | 1,983,430 | | 1,611,622 | 99 | 16,944 | - | LAC | ARG | REF | 15 | INV | 15 | 60.0 | Dec-94 | Jul-97 | Dec-95 | Jun-99 |
| Mirgor S.A.Conversion of the production of CFC-12 hoses for MAC to HFC-134a refrigerant | 4,613 | Completed (Remaining "balance" actually disbursement to FA.) | 35,632 | - | 30,510 | 98 | 509 | - | LAC | ARG | REF | 15 | INV | 17 | 60.0 | Dec-94 | Jun-99 | Dec-95 | Jun-99 |
| Aurora S.A Elimination of CFCs in domestic refrigerator production plants. | , | Project canceled at the 31st ExCom meeting. Funds returned at 32nd meeting. | 641,377 | - | - | - | 73,787 | | LAC | ARG | | | INV | 35 | | | | Nov-97 | |
| Piragua S.A., and Piragua San Luis Elimination of CFCs in 2 domestic refrigerator manufacturing plants. | 1,175,498 | Project canceled at the 31st ExCom meeting. Funds returned at 32nd meeting. | 1,175,498 | - | - | - | 0 | - | LAC | ARG | REF | 18 | INV | 36 | 49.0 | Nov-95 | | Nov-97 | |
| Whirlpool | 112,200 | The project has been completed. A final disbursement for IOC is pending. The PCR is expected to be presented at ExCom as soon as this disbursement is made | 976,183 | - | 731,378 | 97 | 132,605 | 33,209 | LAC | ARG | REF | 23 | INV | 68 | 86.8 | Nov-97 | Dec-98 | Jun-99 | Oct-99 |
| GEPASA S. A. | 550,400 | Project cancelled at 31st ExCom. Funds returned at 32nd ExCom. | 621,952 | 1 | - | 1 | 71,552 | - | LAC | ARG | REF | | INV | 70 | 26.0 | Nov-97 | | Dec-99 | |
| Refripar, Sao Carlos. Conversion of a domestic refrigeration plant. | | Project completed. (Remaining "balance" has been disbursed to FA.) | 162,603 | - | 145,927 | 98 | ,- | | LAC | BRA | FOA | | INV | 16 | | Dec-94 | Jan-96 | Dec-96 | Jun-99 |
| M. Agostini, S.A. substitution of CFC- 11 by HCFC-141b in the manufacture of polyurethane foams | 2,348 | All three foaming machines now installed and in routine operation. | 96,295 | - | 83,139 | 100 | 10,808 | - | LAC | BRA | FOA | 18 | INV | 33 | 11.0 | Nov-95 | Feb-99 | Aug-96 | Sep-99 |

Table VI.2: Adjustments

| Project Title | Savings For | Remarks | App'd | Adj. | Funds | % of | Balance | Planned | Region | | Proje | of Nu | mhor | | ODP | Date | First | Date of | Currently |
|--|---------------------|---|-------------------|--------|------------------|-----------------|---------|-----------------------------|--------|-----|-------|--------|------|----|------------------------|----------|---------------|---------------------|------------------------|
| Project Title | Reporting Period | Remarks | Funding (US\$) | (US\$) | Disb'd (US\$) | Funds Disb'd | Dalance | Com. in Current Year (US\$) | Region | | rroje | ci ivu | mber | | To Be Phased Out | Approved | Disb. Date | Compl. per Proposal | Planned Date of Compl. |
| REUBLI: Elimination of CFC-11 and CFC- 12 in the production of commercial refrigeration equipment | 226,212 | Complete. | 1,018,435 | - | 701,082 | 104 | 91,141 | - | LAC | BRA | REF | 19 | INV | 48 | 96.1 | May-96 | Nov- 97 | Nov-97 | Jun-99 |
| Geltec | 105,938 | Refrigeration equipment installed and operating. | 257,922 | - | 134,500 | 110 | 17,484 | - | LAC | | REF | | INV | 49 | 18.5 | May-96 | Jan-97 | Nov-97 | Jun-99 |
| Gelopar | 164,349 | Refrigeration equipment acquired and installed. 134a production began May 98. | 226,226 | - | 54,758 | 153 | 7,119 | - | LAC | BRA | REF | 20 | INV | 55 | 13.2 | Oct-96 | Dec-97 | Apr-98 | Jun-99 |
| IBBL | 26118 | | 93,226 | - | 59,387 | 105 | 7,721 | 0 | LAC | BRA | REF | 20 | INV | 56 | 5.9 | Oct-96 | Dec-97 | Apr-98 | Jun-99 |
| Specific Training | 15857 | Completed | 127,876 | - | 78,718 | 070 | 33,301 | | LAC | CHI | SEV | 7 | TRA | 11 | - | Jun-92 | Jan-96 | Jun-97 | Oct-97 |
| Zhongshan Fine Chemical Aerosol Filling Center CFC-12 substitution project | 319 | Project completed; PCR submitted to 29th ExCom. | 1,351,360 | - | 1,351,041 | 100 | - | 0 | ASP | CPR | ARS | 13 | INV | 79 | 4,067.0 | Jul-94 | Mar- 96 | Jul-96 | Aug-98 |
| Conversion to CFC- free technology in the manufacture of rigid polyurethane foam at Shanghai No. 6 Plastic Product Plant | 1292 | Project completed; PCR submitted to 31st ExCom. | 687,000 | - | 685,708 | 100 | - | 0 | ASP | CPR | FOA | 13 | INV | 75 | 105.0 | Jul-94 | Oct-96 | Jul-95 | Dec-98 |
| Conversion to CFC- free technology in the manufacture of extruded polyethylene and polystyrene foam sheet at Lanzhou Plastic Packing Material Factory | 37 | Project completed; PCR submitted to ExCom in January 1999. | 222,100 | | 222,063 | 100 | | 0 | ASP | CPR | FOA | 15 | INV | 83 | 200.0 | Dec-94 | Aug- 96 | Dec-95 | Dec-98 |
| Engineering assistance for conversion of refrigerator manufacture to a ternary blend refrigerant (MP-39) in conventional compressors at Shanghai Shuanglu | 82007.65 | Project cancelled due to financial difficulties. Undisbursed balance of \$82,007.65 has been returned to MLF at the 30th ExCom Meeting. Four charging machines are proposed to be | 1,010,000 | - | 927,992 | 100 | 0 | 0 | ASP | CPR | REF | 13 | INV | 70 | 70.0 | Jul-94 | May- 96 | Jul-96 | |

Table VI.2: Adjustments

| D., | C | Damanla | A 1.3 | 4.32 | F J- | | | ajustment | | | D! | 4 NI | 1 | | ODB | D-4- | E:4 | D-4f | C41 |
|--|------------------------------------|---|----------------------------|----------------|---------------------------|-------------------------|---------|--|--------|-----|--------|-------|------|-----|-------------------------------|------------------|------------------------|--------------------------------------|----------------------------------|
| Project Title | Savings For Reporting Period | Remarks | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Projec | et Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
| Electrical Appliances Co. Ltd. | | transferred to the new Shanghai Shangling project. PCR submitted. | | | | | | | | | | | | | | | | | |
| Engineering assistance for conversion of refrigerator manufacture to HFC- 152a/HCFC-22 blended refrigerant in conventional compressors at Chang Ling Co. Ltd. | 10 | Project complete; PCR submitted to 26th ExCom. | 853,000 | - | 852,990 | 100 | - | 0 | ASP | CPR | REF | 13 | INV | 71 | 70.0 | Jul-94 | Mar- 96 | Jul-96 | Sep-97 |
| Conversion of refrigerator manufacture to HFC-134a refrigerant and cyclopentane foam blowing agent at Shanghai Shangling Chang-An Refrigerator Co., Ltd (former Shanghai Yuandong Refrigerator Co. Ltd.) | 1237663 | Project cancelled due to financial difficulties. | 1,398,559 | - | - | - | 160,896 | 0 | ASP | CPR | REF | 23 | INV | 235 | 66.6 | Nov-97 | | Nov-00 | |
| Phaseout CFC-12 at 18 aerosol plants | | A complete phaseout in the aerosol sector has been achieved through this project component. All small aerosol producers have agreed to have their cans filled by Windsor Laboratories, Ecuador's largest aerosol filler. Balance to be returned to MF by Nov/ | 697,000 | - | 331,828 | 100 | - | | LAC | ECU | ARS | | INV | 12 | | Mar-93 | | Mar-95 | Mar-95 |
| Institutional Strengthening | 33327 | Public awareness campaign has been successfully carried out. Ozone Team actively supporting | 204,000 | - | 170,673 | 100 | - | 0 | LAC | ECU | SEV | 9 | INS | 11 | - | Mar-93 | Dec-94 | Mar-96 | Jun-97 |

Table VI.2: Adjustments

| Project Title | Savings For Reporting Period | Remarks | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | ect Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
|--|------------------------------------|--|----------------------------|----------------|---------------------------|-------------------------|---------|-------------------------------------|--------|-----|-------|--------|------|----|-------------------------------|------------------|------------------------|--------------------------------------|---|
| Indonesian Ministry of Industry and Ministry of Environment (TA Aerosol) | 18915 | implementation. Activities on Work program had been completed. Technical audit has been carried out. Draft PCR has been submitted. Remaining grant returned to trust fund. Project completed and closed. The balance is 3 agency fee already disbursed to FA. | 238,000 | - | 212,524 | 97 | 6,561 | 0 | ASP | IDS | ARS | 11 | TAS | 10 | - | Nov-93 | Jul-96 | Jun-96 | Sep-97 |
| P.T.Tulus Bakti Sempurna CFC elimination in PS/PE foam manufacturing | 22725 | | 416,000 | - | 381,604 | 97 | 11,671 | 0 | ASP | IDS | FOA | 11 | INV | 7 | 95.0 | Nov-93 | Jan-97 | Nov-94 | Dec-98 |
| Intitri Muliatama Phaseout of CFC in PS/PE Foam Production | 62963 | Financial and technical requirements of the project have been completed. PCR had been submitted. Project is closed. The balance is 3 agency fee already disbursed to FA. | 387,000 | - | 314,000 | 97 | 10,036 | 0 | ASP | IDS | FOA | 11 | INV | 8 | 119.0 | Nov-93 | Dec-96 | Nov-94 | Sep-98 |
| Association of Polyurethane Foams Indonesia Technical Assistance Program | 1987 | Project technically and financial completed and closed. PCR had been submitted. The balance is 3 agency fee already disbursed to FA. | 1,600,000 | - | 1,549,352 | 97 | 48,660 | 0 | ASP | IDS | FOA | 11 | TAS | 11 | 100.0 | Nov-93 | Nov- 96 | Dec-96 | Dec-97 |
| P.T. Royal Abadi | 3846 | | 237,500 | - | 226,733 | 97 | 6,921 | 0 | ASP | IDS | FOA | 13 | INV | 18 | 120.0 | Jul-94 | Jun-97 | Jul-95 | Dec-97 |

Table VI.2: Adjustments

| Project Title | Savings For Reporting Period | Remarks fee already disbursed | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | ect Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
|---|------------------------------------|---|----------------------------|----------------|---------------------------|-------------------------|---------|-------------------------------------|--------|-----|-------|--------|------|----|-------------------------------|------------------|------------------------|--------------------------------------|---|
| | | to FA. | | | | | | | | | | | | | | | | | |
| Musimmassejahtera | 154145 | Project cancelled at 31st meeting and \$154,145 returned at the 32nd meeting. | 390,000 | - | 29,277 | 12 | 206,578 | 0 | ASP | IDS | FOA | 15 | INV | 30 | 120.0 | Dec-94 | Nov- 96 | Dec-95 | |
| Tobacco | 685910 | | 1,371,820 | - | 607,000 | 115 | 78,910 | 0 | ASP | IDS | ОТН | 21 | INV | 51 | 90.0 | Feb-97 | Aug- 98 | Feb-99 | Feb-99 |
| Lippo Melco | 28649 | | 382,000 | - | 358,011 | 101 | (4,660) | 0 | ASP | IDS | REF | 15 | INV | 23 | 13.2 | Dec-94 | Dec-96 | Oct-98 | Jun-98 |
| Sanyo Industries | 38487 | Project is completed. PCR had been submitted, project is closed. Unused funds returned to 32nd meeting. The balance is 3 agency fee already disbursed to FA. | 558,000 | - | 511,503 | 98 | 8,010 | 0 | ASP | IDS | REF | 15 | INV | 26 | 72.4 | Dec-94 | Apr-96 | Jun-97 | Oct-98 |
| P.T. Topjaya Antariksa Electronics Elimination of ODSs used in the production of household | 3313 | | 793,260 | - | 699,326 | 100 | 90,621 | 0 | ASP | IDS | REF | 18 | INV | 36 | 69.0 | Nov-95 | Nov- 96 | Nov-98 | May-98 |

Table VI.2: Adjustments

| Project Title | Savings For Reporting Period | Remarks | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | ct Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
|--|------------------------------------|--|----------------------------|----------------|---------------------------|-------------------------|---------|-------------------------------------|--------|-----|-------|-------|------|----|-------------------------------|------------------|------------------------|--------------------------------------|---|
| refrigerators Lippo Melco \ Foam | 15066 | Project is completed. PCR had been submitted. Unused funds returned to 32nd meeting. | 299,134 | - | 249,654 | 100 | 34,414 | 0 | ASP | IDS | REF | 20 | INV | 0 | 33.8 | Oct-96 | Aug- 97 | Oct-98 | Oct-98 |
| PT Wahana Derby | 87703 | Project is completed. Capital cost has been reimbursed. PCR submitted. Project is closed and IOC which failed to disburse due to company's foreclose will be returned to the MLF. Project is closed. | 157,333 | - | 61,620 | 120 | 8,010 | 0 | ASP | IDS | REF | 23 | INV | 79 | 10.3 | Nov-97 | Jul-98 | Dec-99 | Nov-97 |
| FA/TA (Financial Agent/Technical Assistance) | 792 | TA Uppindo project is closed. PCR submitted. The balance is 3 agency fee already disbursed to FA. | 50,000 | - | 47,842 | 97 | 1,366 | 0 | ASP | IDS | SEV | 12 | TRA | 14 | - | Mar-94 | Jul-96 | Mar-95 | Dec-98 |
| PT. Garuda Conversion of metal cleaning processes from 1,1,1 TCA to aqueous cleaning | 169 | The project is completed. Technical audit has been done with satisfactory result. PCR had been submitted. Project is closed. | 37,588 | - | 33,095 | 100 | 4,324 | 0 | ASP | IDS | SOL | 18 | INV | 39 | 0.9 | Nov-95 | Oct-97 | Nov-96 | Dec-97 |
| Duroflex | 7422 | Complete. | 100,800 | - | 93,378 | 100 | - | 0 | ASP | IND | FOA | 17 | INV | 34 | | Jul-95 | Apr-96 | Jan-97 | Mar-98 |
| Industrial Foam | 9500 | Complete. | 320,000 | - | 310,500 | 100 | - | | ASP | IND | FOA | | INV | 35 | 35.0 | Jul-95 | 96 | Jan-97 | Mar-97 |
| Vijayjyot Seats Ltd | 35242 | Complete. | 335,500 | | 300,258 | 100 | - | | ASP | IND | FOA | | INV | 48 | | Jul-95 | Jul-97 | Jan-97 | Mar-98 |
| Polyflex P. Ltd | 6000 | Complete. | 222,400 | - | 188,370 | 87 | 28,030 | 0 | ASP | IND | FOA | 17 | INV | 49 | 40.0 | Jul-95 | Mar- 98 | Jan-97 | Sep-98 |
| Blue Star Foam | 6780 | Project completed and PCR submitted. | 224,000 | - | 162,674 | 75 | 54,546 | 0 | ASP | IND | FOA | 17 | INV | 52 | 13.0 | Jul-95 | May- 97 | Jan-97 | Mar-98 |
| Bharat Seats Ltd.: Phaseout of CFCs in the manufacture of molded PUF | 563 | 1 | 581,456 | - | 514,000 | 100 | 66,893 | 0 | ASP | IND | FOA | 18 | INV | 55 | 55.0 | Nov-95 | Dec-96 | Mar-96 | Jul-93 |
| Cello Plast | 546 | Project completed. PCR will be submitted January 2001. | 159,692 | - | 140,774 | 100 | 18,372 | 0 | ASP | IND | FOA | 19 | INV | 86 | 23.0 | May-96 | Feb-98 | Nov-97 | Apr-99 |

Table VI.2: Adjustments

| Project Title | Savings For | Remarks | App'd | Adj. | Funds | % of | Balance | Planned | Region | | Proje | ct Nu | mber | | ODP | Date | First | Date of | Currently |
|--|---------------------|--|-------------------|--------|------------------|-----------------|---------|-----------------------------------|--------|-----|---------|-------|------|-----|------------------------|----------|---------------|---------------------------|------------------------|
| | Reporting Period | | Funding (US\$) | (US\$) | Disb'd (US\$) | Funds Disb'd | | Com. in Current Year (US\$) | | | | | | | To Be Phased Out | Approved | Disb. Date | Compl. per Proposal | Planned Date of Compl. |
| Hindustan Syringes | 22298 | Complete. | 481,000 | - | 458,702 | 100 | | 0 | ASP | IND | SOL | 13 | INV | 26 | 53.2 | Jul-94 | Mar- 96 | Jul-95 | Dec-96 |
| Elimination of 1,1,1 TCA from the precision cleaning processes at Modi Xerox | 25985 | Complete. | 147,825 | - | 104,834 | 100 | 17,006 | 0 | ASP | IND | SOL | 22 | INV | 112 | 6.1 | May-97 | Dec-97 | Jun-98 | Dec-97 |
| Conservation, leakage control and recycling of CFC-12 and demonstration project in MAC sector | 1845 | Project completed. | 910,000 | - | 880,855 | 97 | 27,300 | 0 | ASP | MAL | REF | 6 | TAS | 5 | 370.0 | Feb-92 | Mar- 94 | Sep-95 | Jun-97 |
| Phase out of CFC-12 MAC system production equipment and conversion to HFC-134a MAC system manufacturing in Nippodenso Capital Sdn. Bhd. | 185057 | Project completed. | 2,522,971 | - | 2,047,661 | 100 | 290,253 | 0 | ASP | MAL | REF | 18 | INV | 75 | 120.0 | Nov-95 | Mar- 97 | Nov-99 | Jul-98 |
| Elimination of CFC- 11 through conversion to water based technology in the manufacture of flexible molded polyurethane foam at Saleem Automotive Industries Ltd. | | Project completed, PCR submitted June 2000. | 38,279 | | 31,603 | 101 | 4,109 | 0 | ASP | PAK | FOA | 26 | INV | 30 | 2.5 | Nov-98 | Mar- 00 | Jun-00 | |
| Conversion of tobacco fluffing process to carbon dioxide at Fortune Tobacco Corporation | 302433 | Project fully completed. All CFC- 11 in inventory were consumed before Dec. 30, 1999. (Remaining "balance" has been disbursed to FA.) | 4,720,000 | - | 4,297,697 | 97 | 119,870 | 0 | ASP | РНІ | ОТН | 9 | INV | 18 | 350.0 | Mar-93 | May- 96 | Mar-96 | Jul-99 |
| Sanyo Philippines - Application of a reduced CFC blowing agent and non-CFC application preparation | 37061 | Phase 2 completed 11/96 - adoption of HCFC 141b foam. PCR was endorsed to WB on 10/12/98. Grant fund fully disbursed. Date ODS Eqpt. Dismantled - | 660,000 | - | 605,562 | 97 | 17,377 | 0 | ASP | РНІ | REF | 9 | INV | 8 | 12.6 | Mar-93 | Jan-96 | Mar-97 | Jan-97 |

Table VI.2: Adjustments

| D!4 T!41- | C | Dl | A 2.3 | A 32 | F J- | | | Jusunena Di | | | D! | 4 NT | | | ODB | D-4- | T-24 | D-4f | C41 |
|---|------------------------------------|---|----------------------------|----------------|---------------------------|-------------------------|-----------|--|--------|-----|-------|--------|------|----|-------------------------------|------------------|------------------------|--------------------------------------|---|
| Project Title | Savings For Reporting Period | | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | ect Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
| | | 12/19/95 (Remaining "balance" has been disbursed to FA.) | | | | | | | | | | | | | | | | | |
| Federal Electric Company - Application of a reduced CFC blowing agent and non-CFC application preparation | 1067 | C-pentane - Oct.1, 1998. PCR was endorsed to WB on 2/2/99. Date ODS Eqpt. Dismantled - 12/02/98.Grant fund balance - \$315,733.71undisburs ed. DENR/LBP met with Transunion on 12/14/99 to discuss the undisbursed grant balance. A | 770,000 | - | 768,933 | 100 | - | | ASP | РНІ | REF | | INV | 9 | 2.2 | Mar-93 | Sep-97 | Mar-97 | Mar-98 |
| Thai Toshiba Phase I | 131273 | Project completed. The balance is 3 agency fee already disbursed to FA. | 823,000 | - | 667,037 | 96 | 24,690 | 0 | ASP | THA | REF | 10 | INV | 17 | - | Jun-93 | Dec-97 | Jun-96 | |
| Kang Yong Mitsubishi Phase I | 256628 | Project completed. The balance is 3 agency fee already disbursed to FA. | 1,140,000 | - | 849,712 | 96 | 33,660 | 0 | ASP | THA | REF | 10 | INV | 18 | 120.0 | Jun-93 | Dec-97 | Jun-96 | |
| Sanyo Universal 2 sites, Phase I. | 1269071 | Project completed. The balance is 3 agency fee already disbursed to FA. | 1,864,000 | - | 539,009 | 91 | 55,920 | 0 | ASP | THA | REF | 10 | INV | 19 | - | Jun-93 | Dec-97 | Jun-96 | |
| Hitachi Phase I | 245405 | Project completed. Phase I was financially completed in Aug '97. Phase II was financially completed in Oct. '98. | 553,000 | 253,381 | 669,381 | 119 | (108,405) | | ASP | THA | | 10 | INV | 20 | - | Jun-93 | Aug- 97 | Jun-96 | Dec-96 |
| Sanyo Universal - Compressor | 330207 | Project completed. The balance is 3 agency fee already disbursed to FA. | 989,000 | - | 629,123 | 95 | 29,670 | 0 | ASP | THA | REF | 10 | INV | 21 | - | Jun-93 | Sep-96 | Jun-96 | |
| Kulthorn Kirby | 85630 | Project completed. The balance is 3 agency fee already disbursed to FA. | 686,000 | - | 579,790 | 97 | 20,580 | 0 | ASP | THA | REF | 10 | INV | 22 | - | Jun-93 | Jan-97 | Jun-96 | |
| Sanyo Universal - | 35255 | Project completed. | 761,258 | 288,600 | 898,157 | 97 | 116,446 | 0 | ASP | THA | REF | 20 | INV | 58 | | Oct-96 | Dec-97 | Apr-97 | |

Table VI.2: Adjustments

| | | | | | | | | <i>a</i> g | | | | | | | | | | | |
|---|------------------------------------|--|----------------------------|----------------|---------------------------|-------------------------|-----------|--|--------|-----|-------|-------|------|----|-------------------------------|------------------|------------------------|--------------------------------------|---|
| Project Title | Savings For Reporting Period | Remarks | App'd Funding (US\$) | Adj. (US\$) | Funds Disb'd (US\$) | % of Funds Disb'd | Balance | Planned Com. in Current Year (US\$) | Region | | Proje | ct Nu | mber | | ODP To Be Phased Out | Date Approved | First Disb. Date | Date of Compl. per Proposal | Currently Planned Date of Compl. |
| Compressor Phase II | | | | | | | | Ì | | | | | | | | | | • | • |
| Kulthorn Kirby - Phase II | 173406 | Project completed. | 913,304 | 106,856 | 714,231 | 96 | 132,523 | 0 | ASP | THA | REF | 20 | INV | 60 | - | Oct-96 | Oct-97 | Oct-97 | |
| Sanyo Electrical Dom ref | 40273 | Project completed. | 1,657,772 | - | 1,382,770 | 97 | 234,729 | 0 | ASP | THA | REF | 21 | INV | 61 | 486.0 | Feb-97 | Aug- 98 | Aug-97 | |
| Thai Toshiba Electrical industries Co Ltd | 9715 | Project completed. | 358,161 | - | 297,733 | 97 | 50,713 | 0 | ASP | THA | REF | 21 | INV | 62 | 96.0 | Feb-97 | May- 98 | Feb-98 | |
| Hana Semiconductor | | Project completed. The balance is 3 agency fee already disbursed to FA. | 1,010,000 | - | 746,865 | 96 | 30,300 | 0 | ASP | THA | SOL | 10 | INV | 12 | 16.1 | Jun-93 | Jul-96 | Mar-94 | |
| GRAND TOTAL | 7,197,114 | | 34,914,233 | - | 25,877,409 | 47 | 1,839,710 | 33,209 | | | | | | | 7,523 | | | | |

D. Other Issues

- 20. In the first year of the second decade of the implementation of the Montreal Protocol through Multilateral Fund projects, the World Bank has taken a lead in actions which focus on the compliance stage in which Art. 5 countries approach 100 CFC phaseout targets. The World Bank is continuing to shift its portfolio toward programs which take a holistic approach to ODS phaseout. It has worked closely in the year 2000 with Art. 5 countries, including Jordan, Thailand, China, Malaysia, Turkey, and the Philippines to develop phaseout approaches which target entire sectors and which intermesh policies and long-term goals.
- 21. The countries of Thailand and Malaysia have worked with the World Bank the entire year of 2000 to carefully formulate their proposals for complete phaseout of CFC consumption on time for the 2010 obligation. National CFC phaseout strategies in the two countries have progressed from concept to concrete analysis of all sectors, the identification of investment and non-investment needs and the timing for individual measures. Thailand has nearly completed its proposal for submission to the Executive Committee.
- 22. The CFC production sector projects in India and China, and the halon production sector project in China are progressing well with cumulative phaseout of nearly 55,000 ODP tons. Other Art. 5 CFC producers began discussions with the World Bank in 2000 for possible CFC production phaseout projects. Argentina received US\$40,000 in preparation funds to develop a proposal.
- 23. In Mexico, the pilot project for concessional lending on chillers was successfully launched in October 2000 with the issuance of the project manual on bidding procedures and program characteristics. The first bids took place in December 2000. Sixteen bids have now been received and interest is high among other consumers boding well for a second phase. Loans have been pre-awarded to the 13 bid winners and final awards will be granted once efficiency and consumption patterns are confirmed.
- 24. The umbrella project in Thailand which focuses on small and medium size enterprises in the commercial refrigeration sector has made marked progress. The project is unique in that a larger supplier and vendor of refrigeration units and components is managing the project and seeing to the conversion of 224 SMEs. The project implementation plan has been completed by the large enterprise and it collected final data on the SMEs for the Executive Committee's review. The Executive Committee subsequently released the final tranche of funding, US\$881,486 in December 2000.
- 25. With these MLF funded investment projects, the World Bank has been able to assist countries develop and to strengthen their leadership roles by understanding the extent of their countries' phaseout needs and in developing appropriate policy responses. SEPA in China and DIW in Thailand are prime examples of this success. In 2000, SEPA, which has evolved into a capable government agency, launched efforts to develop a rapid response to measure the effectiveness of the many efforts undertaken in the last decade including in the halon, CFC production, aerosols and foam and commercial refrigeration sectors. DIW organized workshops and consultations with key stakeholders in the Government and industry to develop the NCFCS as well as a final approach to halon consumption phaseout.

26. Finally, the year 2000 has also been a year of difficulties for a group of commercial refrigeration projects in China which were approved through the 16th and 22nd Executive Committee meetings. These difficulties were caused primarily due to technology transfer issues. First, because of the limited amount of funding available for technology transfer, enterprises are forced to enter contracts with second-rung suppliers or suppliers offering obsolete compressor designs. Second, contracts negotiated between suppliers and procurement agencies are often in favor of the suppliers in terms of the language and scope of the technical documents, component standards being different than China's commonly accepted standards, performance requirements not being on par with the enterprises' and local market circumstances, and, supplier obligations for follow-up being negligible once the technology transfer has been made.

Annex A

COUNTRY DEVELOPMENT AND INSTITUTIONAL STRENGTHENING UNIT HIGHLIGHTS

Global Environment Management, Environment Department
The World Bank

| Stat | Agency | Title | Regi on | Project Number | | | | | tati | acter | ODP to be Phas ed Out per Prop osal | ODP Phased Out | Date App'd | | Date of Compl per Proposal | d Date of | Date Compl. (Actual) | Date of Fin Comp | App'd Funding (US\$) | | Funds Disb'd (US\$) | Percent of Funds Disb'd | | Planned Comit. in Current Year (US\$) | Remarks |
|------|--------|---|------------|----------------|---------|------------|-------------|---|------|-------|--|----------------------|---------------|--------|-------------------------------------|--------------|----------------------------|------------------------|----------------------------|-----------|---------------------------|-------------------------------|---------|---|---|
| TRF | IBRD | Institutional strengthening (establishment of OPROZ) | LAC | ARG | | 1 3 | | N | О | D | - | - | Jul-94 | - | Sep-97 | - | - | Jul-94 | 359,500 | (359,500) | - | - | - | - | Transferred to UNDP |
| FIN | IBRD | Establishment of the Ozone Team | LAC | СНІ | SE V | | IN (S | N | О | I | - | - | Jun-92 | Sep-94 | Jun-97 | - | Oct-96 | Nov-96 | 210,907 | - | 210,907 | 1 | - | - | Completed |
| COM | IBRD | Institutional strengthening II | LAC | СНІ | SE V | | IN 1 S 6 | N | О | I | - | - | Oct-96 | Mar-97 | Oct-98 | - | Oct-98 | - | 113,500 | - | 113,500 | 1 | - | - | Completed |
| FIN | IBRD | Ozone protection and institutional strengthening project (renewal) | LAC | СНІ | SE V | | IN 3 S 6 | N | О | I | - | - | Jul-98 | Jan-99 | Jul-00 | - | Dec-00 | Dec-00 | 143,500 | - | 143,500 | 1 | - | - | Completed. |
| ONG | IBRD | Renewal of institutional strengthening | LAC | СНІ | SE V | 3 1 2 3 | | N | О | I | - | - | Dec-00 | - | Jan-03 | Jan-03 | | - | 143,500 | - | - | - | 143,500 | 71,750 | Newly Approved |
| FIN | IBRD | Institutional strengthening | LAC | ECU | SE V | | IN 1 S 1 | | O | I | - | - | Mar- 93 | Dec-94 | Mar-96 | - | May-97 | Aug-97 | 204,000 | (33,327) | 170,673 | 1 | - | - | Public awareness campaign has been successfully carried out. Ozone Team actively supporting project implementati on. |
| ONG | IBRD | Renewal of institutional strengthening (phase II) | LAC | ECU | SE V | | IN 2 S 7 | | O | I | - | - | Jul-99 | - | Jul-02 | Jul-02 | 1 | - | 97,300 | - | - | _ | 97,300 | 24,325 | Subgrant in process. |
| FIN | IBRD | Policy and monitoring measures | ASP | JOR | SE V | 0 1 7 : | | | 0 | Ι | - | - | Jun-92 | Jun-94 | Dec-96 | - | Jun-97 | Jun-97 | 100,000 | 70,000 | 170,000 | 1 | - | | PIU fully operational. Total funding of \$170,000 was disbursed. |
| FIN | IBRD | Renewal of institutional strengthening | ASP | JOR | SE V | | IN 3 | | О | Ι | - | - | May- 97 | Jun-97 | May-99 | - | May-99 | Jun-99 | 113,333 | - | 113,333 | 1 | - | - | PIU fully operational. Funds were fully disbursed. |

| | IBRD | Renewal of institutional strengthening (phase II) | ASP | JOR | SE V | 8 | S | | 10 | Ι | - | - | - | Jul-99 | Aug-99 | Aug-99 | Jun-01 | Jan-00 | Jan-00 | | - | 106,333 | 0.94 | 7,000 | 7,000 | Approximate ly 80 of the funds have been disbursed. A terminal report/extens ion request for IS is being prepared for submission at the next or subsequent ExCom meetings. |
|-----|------|---|-----|-----|---------|-----|------|---|----|---|---|---|---|------------|--------|--------|------------|--------|--------|---------|---|---------|------|---------|---------|--|
| | IBRD | Institutional strengthening for Ozone Desk Operations | | PHI | V | 9 | S |) | 1О | | - | - | - | Mar- 93 | Dec-95 | | Jan-00 | | Jan-00 | 209,000 | - | 200,000 | 0.96 | 9,000 | - | |
| ONG | IBRD | Renewal of institutional strengthening | ASP | PHI | SE V | 8 | | | 10 | Ι | | | - | Jul-99 | Dec-00 | Aug-01 | Aug- 01 | Jan-00 | Jan-00 | 139,333 | - | 40,000 | 0.29 | 99,333 | 90,000 | Newly Approved |
| | IBRD | of Government actions (institutional strengthening) | AFR | | V | 8 | S | | | | - | - | | Oct-92 | Jul-96 | Jun-97 | | Jun-98 | Jun-98 | 280,000 | - | 290,000 | 1.04 | - | | Project complete. Final completion report provided in June 1998. This project is part of a line-of-grant approval. The total expenditure was covered by the \$1.79 million approval. |
| ONG | IBRD | Phase out of ozone depleting substances (renewal of institutional strengthening) | AFR | TUN | SE V | 2 5 | IN 3 | | 10 | I | - | - | - | Jul-98 | Jul-98 | Jul-00 | Dec-03 | Jan-00 | Jan-00 | 186,700 | - | 69,654 | 0.37 | 117,046 | 110,000 | Extended to ensure coverage of program by ozone unit. |

| ONG | IBRD | Institutional | EUR | TUR | SE | 0 I | N 0 | NC | I | - | - | Oct-92 | Jun-95 | Jun-97 | Dec-99 | Jan-00 | Jan-00 | 300,000 | - | 266,843 | 0.89 | 33,157 | 8,289 | IS project |
|-----|------|---------------|-----|-----|----|-----|-----|----|---|---|---|--------|--------|--------|--------|--------|--------|---------|---|---------|------|---------|---------|--------------|
| | | strengthening | | | V | 8 5 | 6 | | | | | | | | | | | | | | | | | extended to |
| | | | | | | | | | | | | | | | | | | | | | | | | accommodat |
| | | | | | | | | | | | | | | | | | | | | | | | | e additional |
| | | | | | | | | | | | | | | | | | | | | | | | | work |
| | | | | | | | | | | | | | | | | | | | | | | | | program of |
| | | | | | | | | | | | | | | | | | | | | | | | | ozone unit. |
| ONG | IBRD | Renewal of | EUR | TUR | SE | 3 I | N 7 | NC | I | - | | Dec-00 | Jan-00 | Jan-03 | Jan-03 | Jan-00 | Jan-00 | 200,000 | - | - | - | | 100,000 | Newly |
| | | institutional | | | V | 2 5 | 3 | | | | | | | | | | | | | | | 200,000 | | Approved |
| | | strengthening | | | | | | | | | | | | | | | | | | | | | | ** |

DATABASE (The World Bank's progress report database is available on the Secretariat's website (www.UNMFS.org). It is also available upon request.)

Annex B

(See Accompanying Spreadsheet)

PROGRESS AND FINANCIAL REPORTING DATABASE

Global Environment Management, Environment Department
The World Bank