

II. Implementation Process of the Process

Evaluation Items	Evaluation Results	Reference
I Progress of the Project Implementation	1 Project activities were implemented according to Project plans? (+) • Refer to the Reports of Monitoring or Evaluation (M/M defined in MTE (Annex 1-II)), the Quarterly Report, the Progress Report.	
	(1) Project activities were implemented in view of the whole according to Project plans? (+) • Project activities were achieved so-so in fact where the project schedule was largely changed in TCP but was realized almost on time (3.3 in FGE). ++ Project activities were achieved excellently according to the plans (5 in FGE)	Experts  C/P Mgrs
	(2) Allocating the personnel, formulating the plans and establishing the management system (+) + Project staffs are arranged and managed well in the project implementation (4.0 in FGE). + Project staffs are arranged and managed well though not so many persons were arranged due to restriction of the Government budget (4.0 in FGE).	Experts  C/P Mgrs
	(3) Making and executing the budget plan (+) + Project budgets are made and realized well because obstacles were not felt (4.0 in FGE). + Project budgets are made and realized well though the INTN budget had a problem (4.0 in FGE).	Experts  C/P Mgrs
	(4) Making and implementing the facility refurbishment plan, providing and installing the machinery and equipment, and operating and maintaining them (+) • The materials and machinery were provided, operated and maintained so-so because there are not big troubles other than that of the 1-ton weight (3.3 in FGE). ++The materials and machinery were provided, operated and maintained excellently in keeping the schedule (5.0 in FGE).	Experts  C/P Mgrs

Evaluation Items	Evaluation Results	Reference
	<p>(5) Making the Technical Cooperation Program, implementing the technology transfer, monitoring and evaluating the results (+)</p> <ul style="list-style-type: none"> <li>+ Technical cooperation was made well so that the C/P level will reach as expected (4.0 in FGE).</li> <li>+ Technical cooperation was implemented well through holding many discussions (4.0 in FGE).</li> </ul>	<p>Experts</p> <p>C/P Mgrs</p>
	<p>(6) Providing the information regarding the metrology to the public through seminars, brochures, etc. (●)</p> <ul style="list-style-type: none"> <li>+ Seminars are evaluated to be good (4 points in FGE). A half of the attendants made the feedback to their works.</li> <li>+ Good publicity activities were made so that number of the service requests increased (4.0 in FGE).</li> <li>++ Excellent publicity activities were implemented, so that the events collected many participants and the brochures were distributed to many related bodies (5.0 in FGR).</li> <li>-- Some large groups of balance users do not learn the Project.</li> <li>- Presentation should be done with audiovisual tools</li> <li>- A part of the contents of JCC had a little difficulty to understand.</li> <li>- The time period of JCC that the observers attend should be shortened limiting the discussion items.</li> </ul>	<p>LC Interview</p> <p>LC Interview</p> <p>Experts</p> <p>C/P Mgrs</p> <p>OAFT</p> <p>CAPECO</p> <p>MIC <small>C. Defense</small></p> <p>CAPECO</p>
	<p>(7) Making plan of the verification and inspection services, implementing, monitoring and evaluating the services (+)</p> <ul style="list-style-type: none"> <li>+ The INTN services were strengthened well, so that the services were provided as per requested (3.7 in FGE).</li> <li>++ The INTN services were strengthened excellently as number of the services increased largely (5.0 in FGE).</li> <li>- Contents of the services of the verification and inspection including the fee should be informed to the potential customers.</li> </ul>	<p>Experts</p> <p>C/P Mgrs</p> <p>CEMIT</p>
<p>2 Monitoring Implementation</p>	<p>2 How was the Project implementation monitored?</p>	

Evaluation Items	Evaluation Results	Reference
	2.1 Monitoring System (+) (1) Checking the Project progress (+) <ul style="list-style-type: none"> <li>• Refer to the Reports of Monitoring or Evaluation (M/M of MTE (Annex 1-II)).</li> </ul> + Progress was jointly checked in use of the management tables and the evaluation sheets corresponding to holding of 4 times of JCC (4.0 in FGE). ++ Progress of the technical cooperation could be grasped with JCC (5.0 in FGE).	Experts  C/P Mgrs
	(2) Preparing the progress reports (+) <ul style="list-style-type: none"> <li>• The progress reports were prepared through the procedures where the Japanese Experts made the fundamental documents then the Paraguayan side reviewed them (3.3 in FGE).</li> </ul> ++ The Japanese side could grasp the project progress with the progress reports (5.0 in FGE).	Experts  C/P Mgrs
	2.2 Contents of the revision of the PDM or detailed activities (●) (1) Additional Verifiable Indicators for Overall Goal 3. Number of calibration service 4. Level of credibility of INTN from the target group	Current PDM Former PDM
	(2) Important Assumptions deleted in those for Over Goal d. Paraguay continues to be a corresponding member of OIML.	Current PDM Former PDM
	(3) Verifiable Indicators deleted in those for Project Purpose 4. Number of requests for the calibration service.	Current PDM Former PDM
	(4) Important Assumptions deleted in those for Outputs c. Importance of proper calibration, verification and inspection are disseminated to the public in Paraguay.	Current PDM Former PDM
	(5) Additional Activities 0-5. To publicize the Project.	Current PDM Former PDM

Evaluation Items	Evaluation Results	Reference
	<p>(6) Additional Preconditions for Activities / Inputs</p> <p>a. The basic role of INTN in the national legal metrology remains unchanged.</p> <p>b. The Paraguayan authorities concerned are supportive of the Project.</p>	<p>Current PDM</p> <p>Former PDM</p>
	<p>2.3 Correspondence to changes of the Important Assumptions, or progress of internalization of the assumptions (+)</p> <p>For the deletions mentioned in 2.2;</p> <p>(2) Deleted assumption "d. Paraguay continues to be a corresponding member of OIML." (+)</p> <p>+ INTN Metrology Department has made efforts for providing the verification and inspection services corresponding to the OIML standards.</p>	<p>Experts</p> <p>C/P</p>
	<p>(4) Deleted assumption "c. Importance of proper calibration, verification and inspection are disseminated to the public in Paraguay" (++)</p> <p>++ The assumption was internalized as the publicity activities such as holding explanation meetings and issuing brochures were performed.</p>	<p>Current PDM</p>
	<p>In addition to the above;</p> <p>(1) Trained C/P remain at Legal Metrology Department in INTN (+)</p> <p>+ INTN forced all the technical C/P to present a covenant in which they promised to remain at Metrology Department during Project.</p>	<p>Quarterly Report</p> <p>C/P</p>
	<p>(2) Trained C/P transfer their knowledge and technology obtained from Japanese Experts to the other staffs of the Legal Metrology Department in INTN. (+)</p> <p>+ Lectures and OJT are now performed as needed in use of the textbooks that Experts made, which is in a process of the internalization.</p>	<p>C/P</p>

Evaluation Items	Evaluation Results	Reference
<p>3 Relationship between Japanese Experts and C/Ps</p>	<p>3.1 How was the communication made between Japanese Experts and C/Ps? (+)</p> <ul style="list-style-type: none"> <li>• Refer to the Reports of Monitoring or Evaluation {M/M defined in MTE (Annex 1-II)}.</li> </ul> <p>+ 4.2 in FGE.</p> <p>Skillful interpreters were utilized.</p> <p>C/P staffs are eager for the project implementation.</p> <p>Many output products were made.</p> <p>Some of C/Ps do not speak English so that the bilingual C/Ps are utilized for the communication.</p> <p>Some of C/Ps are not punctual, which they made efforts to overcome.</p> <p>+ 4.3 in FGE, skillful interpreters were utilized.</p>	<p>Experts</p> <p>Experts</p> <p>Experts</p> <p>Experts</p> <p>Experts</p> <p>Experts</p> <p>C/P staffs</p>
	<p>3.2 Methods to advise by the Japanese experts were proper to the Paraguayan? (+)</p> <ul style="list-style-type: none"> <li>+ Experts feel that the methods are appropriate, because the C/P level will reach the expected.</li> <li>+ C/P staffs evaluate that the methods are proper.</li> <li>++ Methods are excellent in developing theoretically and realistically.</li> </ul>	<p>Experts</p> <p>C/P staffs</p> <p>C/P Mgrs</p>
	<p>3.3 How were the methods jointly revised for solving problems? (+)</p> <ul style="list-style-type: none"> <li>+ Issues to solve were discussed many times at the meetings so that the communication was formed.</li> <li>+ The Paraguayan eagerness for the metrology was deepened.</li> <li>+ Bilingual skills of some C/P staffs were utilized.</li> </ul>	<p>Experts</p> <p>C/P staffs</p> <p>Experts</p> <p>C/P Mgrs</p>




Evaluation Items	Evaluation Results	Reference
4 Taking part in the Project by the beneficiaries	4 How did the beneficiaries take part in the Project?	
	<p>4.1 Introduction of Participatory Evaluation to the Project (●)</p> <p>+ Bodies and companies related to using weighing instruments were invited to JCC as an observer so that the Project could collect the useful information.</p> <p>+ 4.0 points in FGE.</p> <p>● 3.3 points in FGE because the invitation is not so effective to the evaluation.</p> <p>-- Some large groups of balance users do not learn the Project.</p> <p>- Contents of the services of the verification and inspection including the fee should be informed to the potential customers.</p> <p>- A part of the contents of JCC had a little difficulty to understand.</p> <p>- The time period of JCC that the observers attend should be shortened limiting the discussion items.</p>	<p>C/P Mgrs</p> <p>C/P Staffs</p> <p>Experts</p> <p>OAFIT</p> <p>CEMIT</p> <p>MIC <i>c. Defense</i></p> <p>CAPECO</p>
	<p>4.2 Promotion of deepening the beneficiaries understanding regarding to the Project (+)</p> <p>+ The managements such as the INTN general director attended the related events and the meetings.</p> <p>+ The related bodies and companies were invited as the observer to JCC so that the project staffs could grasp the needs for the project.</p> <p>+ C/P feel that such invitations should be continued.</p> <p>+ The public activities should be continued to grasp the needs correspond to increase of the inquiries or applications.</p>	<p>Experts</p> <p>Experts</p> <p>C/P Mgrs</p> <p>C/P staffs</p> <p>C/P Mgrs</p>
<p>4.3 Changes of understanding of the beneficiaries regarding to the Project (+)</p> <p>+ A half of the answerers who attended the seminars made the feedback to their works.</p> <p>+ Corresponding to the fact where the beneficiaries deepened the understanding, number of the inquiries or applications increased.</p> <p>+ C/P staffs feel that INTN should improve the organization for corresponding the increasing needs.</p>	<p>LC Interview</p> <p>Experts</p> <p>C/P Mgrs</p> <p>C/P staffs</p>	




Evaluation Items	Evaluation Results	Reference
5 Ownership of the Paraguayan implementation body	5.1 Degrees of the INTN management participation in the Project (+) <ul style="list-style-type: none"> <li>● Refer to the Reports of Monitoring or Evaluation (M/M in MTE (Annex 1-II)).</li> </ul> + INTN General Director chaired JCC as the Project Director, promoted the events and the seminars, and coordinated with the ministries and organizations such as MIC. + INTN Metrology Director, of Project Manager, played the central function thorough the activities in which she participated in Joint Liaison Meetings + INTN management participated in most of the project events, which is important to the project operation.	Annex 16  Annex 15  C/P Mgrs
	5.2 Preparation of the budget necessary for the Project activities (+) + Financial resources collected as the service fee are secured to allocate the expenditures other than the wages that are prepared by the governmental subsidy.	C/P Mgrs
	5.3 INTN is proper as the C/P of the Project? (++) ++ INTN is the sole body that can provide the verification and inspection services in Paraguay, which the related laws prescribe. ++ The related laws and regulations prescribe that all the weighing instruments should be verified by INTN. + INTN arranges personnel proper for the Project implementation.	Rank-higher bodies MIC C. Defense  Experts C/P
	5.4 Did the C/P receive smoothly the machinery and equipment, and prepare the facilities smoothly? (+) + Received them smoothly.	C/P Mgrs
6 Others	6 Did the C/P or the Experts devise for further success of the Project? (+) <ul style="list-style-type: none"> <li>● 3.3 points in FGE</li> </ul> Many discussions are held between the both sides. Efforts were made to form good relation between the both sides. Efforts were made to keep the Project on schedule as much as possible. The technology transfer was made properly to the C/P staffs. Efforts were made to deepen the C/P's significance for the Project. Data and information useful for the Project were given to the C/P. System of a notice for circulation and of holding commonly files is developed.	Experts Experts Experts Experts  Experts Experts Experts Experts

Evaluation Items	Evaluation Results	Reference
	+ C/P management made overtime works in order to manage the Project.	C/P Mgrs
	+ C/P management made efforts to overcome shortage of the budget.	C/P Mgrs
	+ C/P staffs made efforts to undergo the training well.	C/P
	+ Some of C/P staffs made overtime works in order to keep the schedule of the technology transfer.	C/P
	+ Trained C/P made the technology transfer to the others.	C/P
	+ Selected proper persons as C/P staffs in view of the technical skills.	C/P





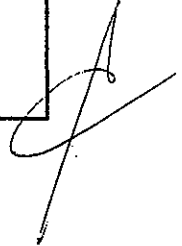

### III. Results of Evaluation by Five Criteria

#### I. Relevance

Evaluation Items	Evaluation Results	Reference
1.1 Does the Overall Goal correspond to the Paraguayan development policy?	<p>1.1.1 Programa del Cobierno, Estudio de Dearrollo Económico del Paraguay (EDEP), and Plan Estratégico Económico y Social (PEES) (++)</p> <p>++ Programa del Cobierno expresses that INTN should be strengthened for improving the export competition and production capability.</p> <p>++ EDEP advocates the reinforcement of quality control, inspection and accreditation system.</p> <p>++ PEES issued in 2001 expresses as an action program strengthening of a national accreditation system and enactment of a national quality-control system.</p>	<p>STP</p> <p>MIC</p> <p>IDB report</p>
	<p>1.1.2 Changes in the above programs or policy (+)</p> <p>+ The Paraguay Government is now developing the above-mentioned policy, in which a seminar on the quality inspection will be held.</p> <p>+ Strategic plan expresses that the formation of a regional system of quality standards should be promoted as a new objective of Paraguay.</p>	<p>STP</p> <p>President's Plan</p>
1.2 Is any ripple effect by the Project expected on the others than the target group?	<p>1.2.1 Ripple effects expressed in the above-mentioned programs (+)</p> <p>+ The Project will have effects on improvement of export competitiveness, productive capability, and quality control.</p>	<p>STP</p>
	<p>1.2.2 The Project contents are proper in view of fairness? (++)</p> <p>++ Ordinary consumers will gain advantage in use of a correct weighing instrument that is verified by Project.</p> <p>++ Defense of Consumer of MIC recognizes that the Project secures the advantages of ordinary consumers in use of the weighing instruments.</p>	<p>STP</p> <p>MIC</p> <p>MIC C. Defense</p>
1.3 Does the Project Purpose correspond to the needs of the Paraguayan side?	<p>1.3 Needs of the Paraguayan side (+)</p> <p>(1) Needs of the verification and inspection services (+)</p> <p>+ Provision of the services within one year is requested by 65% of the answerers, and the immediate one is by 22%. They express the reason that is to establish the international creditability, which the Project Purpose matches.</p>	<p>LC Interview</p>

Evaluation Items	Evaluation Results	Reference
	<p>(2) Level of satisfaction of present and former services beneficiaries (+)</p> <p>The answers feel to the services provided by the INTN Mass and Weighing Area as follow;</p> <p>+ Both correspondence and rapidity of the services are good (4.3 and 4.0 in FGE)</p> <p>- Service fee is a little high (2.3 in FGE)</p> <p>++ 94% are satisfied with the services.</p>	LC Interview
1.4 Is INTN proper as a receiver of the technical assistance by Japan?	<p>1.4.1 Placement of INTN as an international legal metrology body (++)</p> <p>++ Paraguay is an associate member nation of OIML, and INTN is the sole legal organization in Paraguay for the metrology.</p>	M/M, Implementation Study
	<p>1.4.2 System and organization of INTN as a legal metrology body (●)</p> <p>● Refer to the organization charts of INTN and the Metrology Department.</p>	Annex EG-1 Annex EG-2
	<p>1.4.3 Is INTN proper as the C/P of the Project? (++)</p> <p>++ INTN is the sole body that can provide the verification and inspection services in Paraguay, which the related laws prescribe.</p> <p>++ The related laws and regulations prescribe that all the weighing instruments should be verified by INTN.</p> <p>+ INTN arranges personnel proper for the Project implementation.</p>	Rank-higher bodies MIC <i>c. Defense</i> Experts  C/P
1.5 Does the Project correspond to the JICA policy on assisting Paraguay?	<p>1.5 JICA's policy on assisting Paraguay (++)</p>	JICA Implementation Program
	<p>++ The issue of "strengthening of the competitiveness and the economic growth corresponding to MERCOSUR" is held up as an important area for the aid to Paraguay, in which the policy of "improvement of the skills and systems and establishment of the inspection systems necessary for the quality control and for the accreditation system" is expressed.</p>	
1.6 Does Japanese technology gain an advantage over the Project implementation?	<p>1.6 Advantage of Japanese technology over the Project implementation (+)</p> <p>+ Documents such as the manuals were prepared properly for the Paraguayan metrology situations, including the Expert experience in Japan .</p> <p>+ The technology transfer was made in the verification and inspection to transform the good points in Japan into the Paraguayan.</p> <p>+ The explanation seminars were held pointing that the nation understanding and supporting are vital, based on the experience in Japan.</p>	Experts  Experts  Experts

Evaluation Items	Evaluation Results	Reference
	+ The Japanese aid enables INTN to possess the equipment and machinery that is state of the art.	JDAC
	+ The technology transfer has the advantage to utilize the Japanese experience through the Japanese Experts.	JDAC
	+ The C/P training in Japan provided the trainees with the Japanese skills, which is of the advantage.	JDAC
	+ Proper persons were sent as the Expert, which is of the advantage.	JDAC




2. Effectiveness

Evaluation Items	Evaluation Results	Reference
2.1 Achievement of the Project	(Same as the information or data of "1.2 Achievement of the Project Purpose", Achievement)	
2.2 Contribution factors for achievement of the Project Purpose	<p>2.2 What output items contribute to the achievement of the Project Purpose? (+)</p> <p>++ INTN has a financial system for the self-standing (Output 0).</p> <p>+ Necessary staffs and talented interpreters are arranged for the project implementation (Output 0).</p> <p>+ INTN planned the budget necessary and the expenditures did not exceed it (Output 0).</p> <p>+ JICA has a capability and organization to implement the project well (Output 0).</p> <p>+ Proper supports by the Japanese side (Output 0)</p> <p>+ Providing of the materials was fit for the Paraguayan needs and was good in the timing and the contents (Output 1).</p> <p>++ Providing of the equipment and machinery that are state of the art (Output 1).</p> <p>+ C/P are eager for the project implementation (Output 2).</p> <p>+ Japanese Experts perform good skills and talents (Output 2).</p> <p>+ Proper persons are selected as C/P staffs (Output 2).</p> <p>+ Proper young persons were selected as the C/P staffs (Output 2).</p> <p>+ Contents of the technology transfer are clear and proper (Output 2 &amp; 3).</p>	<p>Experts</p> <p>Experts</p> <p>JDAC</p> <p>C/P Mgrs</p> <p>C/P staffs</p> <p>JDAC</p> <p>Experts</p> <p>JDAC</p> <p>Experts</p> <p>C/P staffs</p> <p>C/P Mgrs</p> <p>C/P staffs</p> <p>Experts</p> <p>JDAC</p>
2.3 Obstruction factors against achievement of the Project Purpose	<p>2.3.1 Fulfillment state for the Important Assumptions</p> <p>(1) Assumption: "Trained C/P remain at Legal Metrology Department in INTN" (+)</p> <p>+ Almost overcome by the INTN countermeasure where INTN forced the C/P to submit the covenant for the remaining and increased number of the C/P staffs (3.7 points in FGE).</p> <p>++ Overcome well because an equivalent person was immediately assigned (5 points in FGE).</p> <p>+ Almost overcome because the bad effects by the former C/P resignation was minimized though INTN should provide the trained C/P with the better working conditions (4.4 points in FGE).</p>	<p>Experts</p> <p>C/P Mgrs</p> <p>C/P staffs</p>

Evaluation Items	Evaluation Results	Reference
	<p>(2) Assumption: "Trained C/P transfer the knowledge and technology obtained from the Japanese experts, to the other staffs" (●)</p> <ul style="list-style-type: none"> <li>● 3.0 points in FGE <ul style="list-style-type: none"> <li>For the mass standard, the project period is not enough to the transfer.</li> <li>For the verification and inspection, almost overcome through many lectures and OJTs that C/P made.</li> </ul> </li> <li>● C/P management did not prepare a schedule of the technology transfer because it seemed to hinder the tasks of the Japanese Experts and to force the C/P staffs to do it.</li> </ul> <p>+ Almost overcome because of their efforts, but INTN should make efforts to support the transfer (4,3 points in FGE).</p>	<p>Experts</p> <p>Experts</p> <p>Experts</p> <p>C/P Mgrs</p> <p>C/P staffs</p>
	<p>2.3.2 There are any other obstruction factors against achievement of the Project Purpose? (●)</p> <ul style="list-style-type: none"> <li>● 3.3 points in FGE <ul style="list-style-type: none"> <li>Mal-performance of the 1-ton weight, which was mostly overcome through the technology transfer.</li> <li>Change in the supporting policy of the Paraguay government</li> <li>Methods for developing the staffs, and contents of the materials and facilities that are not fit for the Paraguayan needs.</li> </ul> </li> </ul> <p>+ 4.0 points in FGE</p> <ul style="list-style-type: none"> <li>Not so large obstruction</li> <li>Shortage of the manpower of the Metrology Department</li> </ul>	<p>Experts</p> <p>Experts</p> <p>Experts</p> <p>Experts</p> <p>C/P staffs</p> <p>C/P staffs</p>

3. Efficiency

Evaluation Items	Evaluation Results	Reference
3.1 Achievement of each output	(Same as the information or data of "1.3 Achievement of Outputs", Achievement)	
3.2 Appropriateness of the Inputs in view of the Outputs	<p>3.2.1 Appropriateness of dispatching the Experts in view of the use and the timing (+)</p> <p>+ 3.5 points in FGE</p> <p>Expert feels that the contents, dispatching periods, and dispatching time are good for the fields other than the Mass Standard.</p> <p>Expert feels that the dispatching period of 24 months is not enough for the Mass Standard.</p> <p>++ The dispatching of the Experts was proper because the objectives are clear, but the expert of the weight volume could not be dispatched.</p> <p>- The Experts should not be changed halfway.</p> <p>- Some members feel that the dispatching period is short as the period was decreased due to the delay of the construction works and of the material supply.</p> <p>+ C/P manager feel that the dispatching periods are proper.</p> <p>+ 4.0 points in FGE; however, some C/P staffs feel that some Experts should have had longer periods.</p>	<p>Experts</p> <p>Experts</p> <p>Experts</p> <p>JDAC</p> <p>JDAC</p> <p>JDAC</p> <p>JDAC</p> <p>C/P Mgrs</p> <p>C/P staffs</p>
	<p>3.2.2 Appropriateness of providing the machinery and equipment in view of the use and the timing (+)</p> <p>• 3.3 in FGE</p> <p>Some machinery exceeds the needs of the Paraguayan in the specifications.</p> <p>Providing time should have been planned corresponding to the progress of the C/P technical level and situations of the Paraguayan.</p> <p>+ The providing was proper in the contents and the volume.</p> <p>- There were big differences in the quotations for the materials, which made the Project delay.</p> <p>+ The providing was almost proper because C/P are proud that the equipment is of the most up-to-date level.</p> <p>++ 4.8 points in FGE on the above-mentioned background</p>	<p>Experts</p> <p>Experts</p> <p>Experts</p> <p>JDAC</p> <p>JDAC</p> <p>C/P Mgrs</p> <p>C/P Staffs</p>

Evaluation Items	Evaluation Results	Reference
	<p>3.2.3 Appropriateness of training C/P in Japan in view of the use and the timing (●)</p> <p>+ 4.0 points in FGE</p> <p>The training was proper and the results have been utilized in INTN in the verification and inspection.</p> <p>The training period was short to the mass standard.</p> <p>+ The training was proper in both the period and the contents.</p> <p>+ The training was proper and the results have been utilized in INTN.</p> <p>- Plural number of trainees should have been dispatched as a countermeasure against the C/P resignation.</p> <p>++ 4.6 points in FGE</p> <p>The training was proper and the results have been utilized in INTN in the verification and inspection.</p> <p>- The training period was short to the mass standard.</p> <p>- The schedule should be planned in order that the periods of dispatching the Experts might not fall on those of the training.</p>	<p>Experts</p> <p>Experts</p> <p>Expert</p> <p>JDAC</p> <p>C/P Mgrs</p> <p>C/P Mgrs</p> <p>C/P staffs</p> <p>C/P staffs</p> <p>JDAC</p>
	<p>3.2.4 Appropriateness of costing the running expenses (+)</p> <p>+ C/P management is proud that the budget was secured to implement the Project and the expenditures did not exceed the budget amount.</p> <p>● There is a project planned by Inter-American Development Bank (IDB) to defense consumers; however, it is not able to compare the running expenses with that of the Project because the IDB project will supply only software.</p> <p>+ C/P management and staffs are very proud that they have the machinery and equipment that are state of the art.</p>	<p>C/P Mgrs</p> <p>MIC C. Defense</p> <p>C/P Mgrs</p> <p>C/P staffs</p>
	<p>3.2.5 Appropriateness of C/P arrangement (+)</p> <p>+ 4.0 points in FGE</p> <p>C/P staffs are generally proper in number, quality, experience, capability and attitude.</p> <p>++ C/P technical staffs will improve the skills and capability through accumulating the experience though the staffs are not enough in number.</p> <p>- Administration staffs should be strengthened in number.</p> <p>++ 5 points in FGE</p>	<p>Experts</p> <p>Experts</p> <p>C/P Mgrs</p> <p>C/P Mgrs</p> <p>C/P Staffs</p> <p>C/P Staffs</p>

Evaluation Items	Evaluation Results	Reference
	3.2.6 Appropriateness of providing the building and facilities in view of the quality, the weighing instrument and the use (-) - The inspection room will be narrow as number of the applications increase. - The personal computers were delayed for the provision.	Experts  Experts
3.3 Contribution for the efficiency of the Project supporting system	3.3.1 Utilization of Japanese Domestic Advisory Committee (●) ++ Good supports were provided. + The information from JDAC was useful. - JDAC should have been established prior to beginning of the Project. - Some members of JDAC feel that their own activities were not enough. ----- 3.3.2 Utilization of Joint Coordinating Committee (JCC) (+) + Well functioned ----- 3.3.3 Supporting System in Paraguay (●) + The project was supported well by the Paraguayan side. + The machinery and equipment were smoothly received. - Local governments should be utilized in addition to the central.	Experts JDAC JDAC JDAC  Experts  Experts Experts Experts
3.4 Effects of Important Assumptions on the Project activities and Outputs	3.4.1 C/P remaining at Legal Metrology Department (+) + The resignation was overcome so that the effects were minimized. ----- 3.4.2 Time period required for the custom clearance of Machinery and Equipment (+) + Not delayed ----- 3.4.3 Regular provision of the utilities to Buildings and Facilities (+) + No troubles	C/P Mgrs  ----- C/P Mgrs  ----- Experts C/P Mgrs
3.5 Effects of the Pre-conditions	3.5.1 Functions of INTN prescribed in the Metrology Law (++) ++ Paraguay is an associate member nation of OIML ++ INTN is the sole body that can provide the verification and inspection services in Paraguay, which the related laws prescribe. ++ The related laws and regulations prescribe that all the weighing instruments should be verified by INTN. ----- 3.5.2 Placement of the Project in the Paraguay development programs ● Refer to "1.1 Does the Overall Goal correspond to the Paraguayan development policy?", 1. Relevance.	M/M Rank-higher bodies MIC C. Defense



4. Impact

Evaluation Items	Evaluation Results	Reference
4.1 Was Overall Goal achieved as it had been expected?	(Same as the information or data of "1.1 Achievement of Overall Goals", Achievement)	
4.2 Did the achievement of Overall Goal result from that of the Project Purpose?	<p>4.2 Factors to achieve Overall Goal, other than those of Project Purpose</p> <p>The following activities have good effects on the achievement of Overall Goal (++)</p> <ul style="list-style-type: none"> <li>++ Establishment of the traceability through performing the international comparison of weights</li> <li>++ In-house calibration of standard weights</li> <li>++ Seminars, brochures, explanation meetings and so on</li> </ul>	<p>STP</p> <p>C/P Mgrs</p>
4.3 Did Important Assumptions have any effect on achievement of Overall Goal?	<p>4.3 Fulfillment state for Important Assumptions for achievement of Overall Goal</p> <hr/> <p>4.3.1 Political or economic situation in Paraguay (+)</p> <ul style="list-style-type: none"> <li>+ Creditability of INTN will be improved as the functions of INTN will be clarified through reforming INTN.</li> <li>+ Creditability of INTN will be improved as the Government will support in the laws and regulations.</li> <li>++ Creditability of INTN will be well improved because INTN is a national body.</li> <li>++ Creditability of INTN will be well improved because Paraguay requires the mechanism to manage the quality and quantity.</li> <li>+ Creditability of INTN will be a little improved through continuing the services though the Paraguay situations do not change.</li> </ul> <hr/> <p>4.3.2 INTN's placement as a sole national metrology laboratory in Paraguay (+)</p> <ul style="list-style-type: none"> <li>+ The placement will be maintained and INTN will continuously provide the services so that creditability of INTN will be improved.</li> <li>+ INTN can correspond to the various needs so that the creditability will be improved.</li> <li>++ The creditability will be improved well.</li> <li>+ The creditability will be a little improved as the result from the Project activities.</li> </ul>	<p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p> <p>CAPECO</p> <p>CICNP</p> <hr/> <p>STP</p> <p>CEMIT</p> <p>CAPECO</p> <p>CICNP</p>

Evaluation Items	Evaluation Results	Reference
	<p>4.3.3 Promotion of the metrology importance through continuous policy of Paraguay (+)</p> <p>+ Publicity activities will continue so that the public consciousness on the metrology will be improved.</p> <p>+ Publicity activities will continue so that the laboratory will be strengthened because of the service increase.</p> <p>+ The creditability will be improved because the publicity can improve the beneficiary understanding, and enables the users to grasp the related laws and the facilities and technical resources of INTN.</p> <p>++ The creditability will be improved well.</p> <p>++ The creditability will be improved well on condition that INTN continues the publicity with the clear policy.</p>	<p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p> <p>CAPECO</p> <p>CICNP</p>
<p>4.4 Dose the Project have any positive or negative effect (including a ripple effect) ?</p>	<p>4.4.1 Project effects on the Paraguayan policies (+)</p> <p>+ Exports increase, contribution on the correct metrology and creditability increase on quality control</p> <p>+ Better export competitiveness, and improvement of the standard of living</p> <p>+ Plus impact because of enlarging the international creditability of INTN</p> <hr/> <p>4.4.2-1 Effects on INTN economy or finance situations (+)</p> <p>+ The financial resource will increase so that INTN existence will be secured.</p> <p>+ More income is expected as the technical skills are improved.</p> <p>4.4.2-2 Effects on economy of ordinary consumers (+)</p> <p>+ The consumers are going to do their shopping at a shop whose balances are verified by INTN.</p> <p>+ The consumers can do the shopping with fair payment.</p> <p>4.4.2-3 Effects on economy of the Target Group (++)</p> <p>++ The Target Group can gain advantages in achievement of the Project.</p> <p>4.4.2-4 Effects on economy of the farmers growing cotton, tobacco, etc. (+)</p> <p>+ The farmers will gain advantages as deepening the understanding on the metrology.</p>	<p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p> <hr/> <p>STP</p> <p>CEMIT</p> <p>C/P Mgrs</p> <p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p> <p>C/P Mgrs</p> <p>CEMIT</p> <p>CADELPA</p>

Evaluation Items	Evaluation Results	Reference
	<p>4.4.3-1 There are any Projects effects on organizations? (●)</p> <p>+ Close relation will be formed between INTN and the industries through the INTN activities of verification and inspection. Such forming will promote reforming of INTN.</p> <ul style="list-style-type: none"> <li>● Service execution on commission as the agency can be considered, for example, the services on the liquefied-gas cylinders</li> <li>● INTN should develop the organization of the Metrology Department in order to perform the good services.</li> </ul> <p>+ Plus impact in the long-term period because the quality-control system and the accreditation system will be required as the fundamental.</p> <ul style="list-style-type: none"> <li>● INTN should develop the organization of the Metrology Department in order to enter a factory and inspect weighing instruments with MIC.</li> </ul>	<p>STP</p> <p>MIC</p> <p>C/P Mgrs</p> <p>CEMIT</p> <p>CADELPA</p>
	<p>4.4.3-2 Project effects on furnishing related regulations and laws (+)</p> <p>+ Laws or regulations related to INTN and the metrology will be revised corresponding to the state.</p> <p>+ MIC has a right to enter a shop and inspect the weighing instruments, activities of which will be performed jointly with INTN.</p> <p>+ Project will induce observance of the related laws among the weighing-instrument users.</p> <p>+ Project will induce revision of the related laws including the inspection procedures.</p>	<p>STP</p> <p>C/P Mgrs</p> <p>MIC c. Defense</p> <p>CEMIT</p> <p>CADELPA</p>
	<p>4.4.4 Project effects on technical renovation (+)</p> <p>+ Improvement of the production capability, developing of the human resources, and furnishing the system of the quality control.</p> <p>+ Project will bring technology improvement.</p> <p>+ System of the quality control and accreditation will be established.</p>	<p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p>
	<p>4.4.5 Project effects on the position of women, the human rights, and the rich and the poor (+)</p> <p>+ Women who play the central role in shopping will have larger rights through being interested in the metrology.</p> <p>+ Project will develop a consumer movement in which women play the central role.</p>	<p>STP</p> <p>C/P Mgrs</p>
	<p>4.4.6 Project effects on sustaining the environment (+)</p> <p>+ Improvement of the standard of living, then sustaining of the environment.</p>	<p>STP</p> <p>C/P Mgrs</p> <p>CEMIT</p>

5. Sustainability

Evaluation Items	Evaluation Results	Reference
<p>5.1 Results of the Project Purpose and the Overall Goal that the Project aims will last after the Project?</p>	<p>5.1 Durability of results of Project Purpose and Overall Goal (●)</p> <ul style="list-style-type: none"> <li>● INTN should make efforts to transfer the technology from the trained C/P to the others.</li> <li>● STP desires that the Japanese Government would assist such technology transfer in use of the materials that Project provides.</li> </ul> <p>+ INTN should tackle the issues to establish the verification procedures, to furnish statistics on the services and to make the publicity.</p> <ul style="list-style-type: none"> <li>● INTN should continue the Project and develop the technical staffs</li> </ul>	<p>STP</p> <p>STP</p> <p>C/P Mgrs</p> <p>CICNP</p>
<p>5.2 What are contribution factors for and obstruction factors against such results lasting?</p>	<p>5.2.1 Does the Paraguayan policies support continuously the Project? (●)</p> <ul style="list-style-type: none"> <li>● Publicity activities should be continuously performed jointly with MIC.</li> <li>● The law and regulation systems necessary for the verification and inspection should be furnished in Paraguay.</li> </ul> <hr/> <p>5.2.2 INTN has the organization capable to achieve smoothly the Project activities?</p> <p>+ INTN is in the process of revising the internal regulations to pay a special allowance to the technical C/P as a countermeasure against the C/P resignation.</p> <p>5.2.2-1 Expectation of arrangement of the human resources (+)</p> <p>+ 4.0 in FGE because INTN has a capability to overcome the C/P's resignation.</p> <p>+ INTN should develop the technology C/P in use of the CAP method in order that the INTN services could cover the whole area of Paraguay.</p> <p>+ MIC has a plan to increase the human resources as follows:</p> <ol style="list-style-type: none"> <li>1) The national budget, 2) University or college institutes as the agency,</li> <li>3) Other bodies that INTN will certify as the agency</li> </ol> <p>+ INTN group should be strengthened through distributing the technical skills that were obtained from the Japanese Experts.</p> <p>+ INTN should consider the personal history in the staff arrangement.</p> <p>+ INTN recognizes that further assistance from the Japanese Experts is required for the activities of entering a shop and inspecting the weighing instruments by the C/P technical staffs.</p> <ul style="list-style-type: none"> <li>● INTN should utilize the other bodies for such activities where the bodies will be certified by INTN.</li> <li>● INTN should form the organization where the manuals could be revised.</li> </ul>	<p>Experts</p> <p>Experts</p> <p>C/P Mgrs</p> <p>Experts</p> <p>STP</p> <p>MIC</p> <p>C/P Mgrs</p> <p>C/P Mgrs</p> <p>C/P Mgrs</p> <p>MIC c. Defense</p> <p>C/P Mgrs</p>

Evaluation Items	Evaluation Results	Reference
	<p>5.2.2-2 Expectation of establishment of the budget necessary for the Project implementation (+)</p> <p>+ INTN has the self-standing financial resource that can be collected as the service fee. INTN will allocate to the publicity activities a part of the resource.</p> <p>+ INTN will make efforts to enlarge the allowable usage of the resource though it is currently restricted to less than 70%.</p> <p>+ The amount of the subsidy for INTN that is cost mainly for the wages will be maintained.</p> <p>+ The financial resource of collecting the service fees is secured because the fees are paid in advance.</p> <p>+ The budget will be made concretely for performing the publicity.</p> <p>• INTN should be certified as an accreditation body by a foreign body, which will cost several thousands US\$.</p>	<p>STP</p> <p>MIC C/P Mgrs</p> <p>STP</p> <p>C/P Mgrs</p> <p>MIC C/P Mgrs</p> <p>C/P Mgrs</p>
	<p>5.2.2-3 Appropriateness of the process of judgment or decision of the activities (+)</p> <p>+ C/P management feels that the process is proper.</p>	<p>MIC C/P Mgrs</p>
	<p>5.2.3 Expectation of establishment of the regulations or laws (+)</p> <p>+ Laws or regulations related to INTN (and the metrology) will be revised corresponding to the state.</p> <p>+ MIC has a right to enter a shop and inspect the weighing instruments, activities of which will be performed jointly with INTN.</p> <p>+ Project will induce revision of the related laws including the inspection procedures.</p>	<p>STP</p> <p>MIC C/P Mgrs</p> <p>MIC C. Defense</p> <p>CADELPA</p>
	<p>5.2.4 INTN supports itself financially, or there are any financial systems to support INTN?</p> <p>• Same as the results of 5.2.2-2.</p>	
	<p>5.2.5 Are necessary technologies and skills maintained or distributed? Are the materials properly maintained and controlled? (•)</p> <p>+ The technical level will be maintained in the verification and inspection field.</p> <p>+ INTN will achieve the traceability with support of the Japanese Experts.</p> <p>- The procedures to maintain properly the materials should be established and secured.</p>	<p>Experts C/P staffs</p> <p>C/P Mgrs</p> <p>Experts C/P staffs</p>

Evaluation Items	Evaluation Results	Reference
	<p>5.2.5-1 Expectation of maintaining and distribution of the technologies and skills (●)</p> <ul style="list-style-type: none"> <li>- Dispatching an expert of the Mass Standard is necessary for supporting the C/P activities.</li> <li>+ Manuals and standards that are jointly developed will be useful for the maintaining and distribution.</li> <li>● The good maintaining and distribution depend on whether good conditions are given to the trained C/P or not.</li> </ul>	<p>Experts C/P staffs C/P Mgrs C/P staffs</p>
	<p>5.2.5-2 Expectation of maintaining and controlling of the materials (●)</p> <ul style="list-style-type: none"> <li>+ The materials will be maintained and controlled well.</li> <li>- Budget should be secured against the future material troubles.</li> </ul>	<p>C/P Mgrs C/P staffs C/P staffs</p>
	<p>5.2.6 Project impoverishment on the society or the culture brings any obstacle in lasting the Project activities? (+)</p> <ul style="list-style-type: none"> <li>+ No obstacle brought.</li> <li>● The Project should be promoted in harmony with the IDB project aiming at the consumer defense.</li> </ul>	<p>C/P Mgrs MIC c. Defense</p>

# ANNEX 6 Flow Chart of Inputs to the Project

Feb/24/2003

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Item of Input		Project Year Calendar Year JFY	1st Year												2nd Year												3rd Year																																			
			1999												2000												2001												2002												2003											
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Japanese Input	Dispatch of Mission	1) Basic Study	From Jan/14/1997 to Jan/26/1997																																																											
		2) Preliminary Study	From Apr/10/1998 to Apr/20/1998																																																											
		3) Supplementary Study	Mar/14 - Mar/27																																																											
		4) Second Supplementary Study	Jul/14 - Jul/30																																																											
		5) Implementation Study	Dec/04 - Dec/24																																																											
		6) Management Consultation	May/15 - May/16																																																											
		7) Mid-term Evaluation	Mar/05 - Mar/15																																																											
		8) Evaluation	Feb/08 - Feb/28																																																											
Japanese Input	Renovation and Refurbishment of Laboratories	1. Term of construction	-----																																																											
		2. Actual Expenditure of JICA																																																												
		1) Supervisor Fee US\$13,750																																																												
		2) Construction Cost US\$94,799																																																												
		Total	US\$108,549																																																											
Japanese Input	Dispatch of Japanese Consultant	1) Preparatory Study (examination of constructors)	Mr. Kiyoshi Yoshida Mar/27 - Apr/13																																																											
		2) Project Consultation (inspection of construction work)	Mr. Kiyoshi Yoshida Aug/21 - Sep/08																																																											
		3. Dispatch of Japanese Consultant																																																												
Paraguayan Input	Provision & Maintenance of Building & Facilities	1. Laboratories	From completion of construction -----																																																											
		1) Land Area (Floor Area) 120m <sup>2</sup> (110m <sup>2</sup> )																																																												
		2) 1 calibration room, 1 verification & inspection room																																																												
		2. Office and meeting room	From completion of repair -----																																																											
Japanese Input	Dispatch of Expert	1) Chief Advisor 32MM	Mr. Shinya Aoki Jun/05 ----- Jun/04																																																											
		2) Coordinator 32½MM	Ms. Yumiko Ishihama Jun/05 ----- Jun/04																																																											
		3) Expert on Verification & Inspection 32½MM	Mr. Masakuni Ishii Jun/05 ----- Jun/04																																																											
		4) Expert on Mass Standard 29MM	Mr. Shozo Yano Sep/07 ----- Jun/04																																																											
		Total 125½MM																																																												
		1) Seminar Lecturer at the Opening Ceremony ¼MM	Mr. Masanori Okonogi May/05 - May/12																																																											
		2) Seminar Lecturer at the Opening Ceremony ¼MM	Mr. Tatsumi Ueyama May/05 - May/12																																																											
		3) Expert on Uncertainty in Case of Inspection 1¼MM	Mr. Keizaburo Uchikawa Jul/25 - Sep/02																																																											
		4) Expert on Interantional Recommendation (OIML R76) 1¼MM	Mr. Masaaki Izawa Aug/29 - Oct/10																																																											
		5) Seminar Lecturer at the Closing Ceremony ¼MM	To be approved *																																																											
		Total	3¼MM																																																											

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# ANNEX 6 Flow Chart of Inputs to the Project

Feb/24/2003

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Item of Input	Project Year Calendar Year JFY	1st Year												2nd Year												3rd Year																							
		1999						2000						2001						2002						2003																							
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
<b>Paraguayan Input</b>		<b>Allocation of C/P and Administrative Personnel</b>																																															
1. Administrative C/P																																																	
1) Project Director	37MM	Mr. José Martino Vargas						Mr. Ramón F. Codas						Ms. Lilian Martínez de Alonso																																			
2) Project Manager	36MM	Mr. Victor M. González												Mr. Zully Milessi de Orrego																																			
3) Project Coordinator	37MM	Ms. Zully Milessi de Orrego																																															
2. Technical C/P																																																	
1) Technical Coordinator	37MM	Mr. Shiguero Yano																																															
2) Technical C/P on Mass Standard	25MM	Mr. Silvio Zarza																																															
3) Technical C/P on Mass Standard	28MM							Mr. Arnaldo Florencio																																									
4) Technical C/P on Mass Standard	16MM													Mr. Ricardo Ramírez																																			
5) Technical C/P on Verification & Inspection	37MM	Mr. Miguel García																																															
6) Technical C/P on Verification & Inspection	11MM													Mr. Ever Cabrera																																			
Total		264MM																																															
3. Administrative Staff		Staff in the area of budget, procurement, P.R., protocol, etc. have cooperated on the Project, as the need arises.																																															
4. Supporting Staff																																																	
1) Secretary	32MM	Ms. Adolfina Cardoso																																															
2) Driver	32MM	Mr. Sindulfo Paredes																																															
3) Data Processing	7MM													Ms. Diana Cantero																																			
Total		71MM																																															
<b>Japanese Input</b>		<b>C/P Training in Japan</b>																																															
1) Project Management	½MM	Mr. Victor M. González						Mar/20 - Mar/31																																									
2) Project Management	½MM	Ms. Zully Milessi de Orrego						Mar/20 - Mar/31																																									
3) Calibration, Verification & Inspection	2MM							Mr. Shiguero Yano						Jan/17 - Mar/17																																			
4) Calibration, Verification & Inspection	2MM							Mr. Miguel García						Jan/17 - Mar/17																																			
5) Calibration, Verification & Inspection	2¼MM													Mr. Arnaldo Florencio						Sep/25 - Dec/04																													
6) Calibration, Verification & Inspection	2¼MM													Mr. Silvio Zarza						Sep/25 - Dec/04																													
Total		9½MM																																															
<b>Paraguayan Input</b>		<b>Supply &amp; Replacement of Machinery, Equipment &amp; Other Materials</b>																																															
1. Transferred equipment from other sections		1 Vehicle (Toyota Land Cruiser), 3 Air conditioners, Office furniture such as desks, chairs, tables,																																															
2. Procured Equipment & Materials		1 Electric Board, 2 PC, 1 Bookshelf, 4 Desks, 4 Chairs, 1 Mineral water tank, 3 PC, 2 TFT Monitors, 4 Ink-jet printer, 1 TV set, 1 VCR, 1 Telephone																																															
Actual Expenditure of INTN per Paraguayan Fiscal Year																																																	
2000 PFY		Gs 27,121,056																																															
2001 PFY		Gs 34,380,888																																															
2002 PFY		Gs 47,260,417																																															
Total		Gs 108,762,361																																															
				2 PC, 1 Scanner, 1 Ink-jet printer, 1 Laser printer, 2 Telephones, 1 Desiccator, 1 Lazer printer, 1 Telefacsimile, 1 Refrigerator																																													

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# ANNEX 6 Flow Chart of Inputs to the Project

Feb/24/2003

3/4

Item of Input	Project Year Calendar Year JFY	1st Year												2nd Year												3rd Year																							
		1999						2000						2001						2002						2003																							
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6																		
Japanese Input Provision of Machinery and Equipment	Actual Expenditure of JICA per Japanese Fiscal Year																																																
	1999 JFY ¥26,492,468																																																
	2000 JFY ¥185,590,762																																																
	brought forward from 1999																																																
	2000 JFY ¥149,332																																																
2001 JFY ¥875,490																																																	
Total ¥213,108,052																																																	
Accompanied Equip.	Actual Expenditure of JICA per Japanese Fiscal Year																																																
	2000 JFY ¥3,795,419																																																
	2001 JFY ¥200,379																																																
	2002 JFY ¥567,803																																																
	Total ¥4,563,601																																																
Japanese Input Provision of Supporting Local Cost	Actual and Expected Expenditure of JICA up to 2002 JFY																																																
	1) Operating Expenses ¥5,320,000 Including making of textbooks													¥2,016,000												¥1,460,000						¥1,844,000						To be approved											
	2) Construction of Laboratory ¥12,157,000	¥12,157,000																																															
	3) Seminar / Ceremony ¥576,000																																																
	4) Making of Pamphlet ¥602,000																																																
	5) Survey and P.R. ¥286,000																																																
	6) Exchange of Tech. ¥993,000																																																
	7) Making of P.R. Video ¥1,056,000																																																
	8) Explanation Meetings ¥401,000																																																
	9) Construction of Garage ¥783,000																																																
	10) Questionnaire survey ¥542,000																																																
Total ¥22,716,000	¥12,157,000												¥2,106,000												¥2,442,000						¥6,011,000						¥1,021,000												
Paraguayan Input Provision of Running Expenses	1. Personnel Service Gs 1,507,868,642													Gs 470,855,309												Gs 484,064,050						Gs 552,949,283																	
	1) Salaries Gs 1,041,926,805													Gs 324,285,120												Gs 349,659,285						Gs 367,982,400																	
	2) End of Year Bonus Gs 86,827,083													Gs 27,023,760												Gs 29,138,323						Gs 30,665,000																	
	3) Overtime Payments Gs 6,286,785													Gs 3,400,000												Gs 557,002						Gs 2,329,783																	
	4) Bonus Gs 117,985,400													Gs 26,980,000												Gs 31,240,000						Gs 59,765,400																	
	5) Pension Charge Gs 159,696,056													Gs 45,498,364												Gs 50,048,200						Gs 64,149,492																	
	6) Daily Wages Gs 60,708,000													Gs 22,000,000												Gs 17,908,000						Gs 20,800,000																	
	7) Professional Fee Gs 34,438,513													Gs 21,668,065												Gs 5,513,240						Gs 7,257,208																	
	2. No Personnel Service Gs 389,208,860													Gs 56,464,591												Gs 172,000,000						Gs 160,744,269																	
	1) Transportation & Strage Gs 0													Gs 0												Gs 0						Gs 0																	
	2) Traveling Fare Gs 192,334,287													Gs 16,800,000												Gs 86,000,000						Gs 89,534,287																	
	3) Maintenance & Repair Gs 38,809,982													Gs 1,600,000												Gs 26,000,000						Gs 11,209,982																	
	4) Equipment Insurance Gs 124,000,000													Gs 30,000,000												Gs 34,000,000						Gs 60,000,000																	
	5) Taxes, Fees & Fines Gs 34,064,591													Gs 8,064,591												Gs 26,000,000						Gs 0																	

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# ANNEX 7 List of Equipment Supplied by INTN

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Feb/24/2003

INTN Property Num.	Description of Equipment	Delivery Time	Amount (guarani)
61.05.06 123	Un Telefono Marca Panasonic	7-Jun-00	77,355
61.05.06 124	Un Telefono Marca Panasonic	7-Jun-00	77,355
61.05.06 125	Una Heladera Marca CONSULT Modelo CRTIZCBDEX S/N° JC9859566	7-Jun-00	765,602
61.05.06 119	Un Scanner HP SCANJET 3200 C, S/N° CN99Q1AAFKN	19-Jun-00	473,731
61.05.06 120	Un CPU COMPAQ PRESARIO 7473 S/N° F008DCTB2281	19-Jun-00	2,531,125
61.05.06 121	Un Monitor Color, Marca COMPAQ MV740 S/N° 932CE48BWD8	19-Jun-00	417,751
61.05.06 122	Un Teclado Marca COMPAQ S/N° B10910BCPIFYZX	19-Jun-00	51,416
61.05.06 129	Un Monitor Marca COMPAQ MV720 S/N° 932CE48BWEWY	19-Jun-00	417,751
61.05.06 130	Un CPU COMPAQ PRESARIO 7473	19-Jun-00	2,531,125
61.05.06 131	Un Teclado COMPAQ S/N° B1C910BCPIFFZZN	19-Jun-00	51,416
61.05.06 142	Una Impresora HP LASERJET S/N°U50T042397	19-Jun-00	2,255,858
61.05.06 126	Un Equipo FAXSIMIL, Marca MITA Modelo, LDC-820	14-Jul-00	6,804,966
61.05.06 145	Una Pizarra Electrica Marca PANASONIC, Mod. KX-B530G S/N° 30167LA1935	20-Oct-00	4,680,776
61.05.06 146	Un Pedestal Para Pizarra Electrica	20-Oct-00	791,602
61.05.06 149	Un Escritorio de Madera con 6 Cajones de 1,55 x 0,55 x 0,75	24-Oct-00	1,174,992
61.05.06 150	Un Escritorio Enchapado en Formica con 6 Cajones de 1,55 x 0,55 x 0,75	24-Oct-00	949,785
61.05.06 151	Un Escritorio Enchapado en Formica con 6 Cajones de 1,55 x 0,55 x 0,75	24-Oct-00	949,785
61.05.06 152	Un Escritorio Enchapado en Formica con 6 Cajones de 1,55 x 0,55 x 0,75	24-Oct-00	949,785
61.05.06 153	Una Silla Tipo Secretaria, Giratoria Regulable	24-Oct-00	259,477
61.05.06 154	Una Silla Tipo Secretaria, Giratoria Regulable	24-Oct-00	259,477
61.05.06 155	Una Silla Tipo Secretaria, Giratoria Regulable	24-Oct-00	259,477
61.05.06 156	Una Silla Tipo Secretaria, Giratoria Regulable	24-Oct-00	259,477
61.05.06 127	Un Telefono Marca Panasonic Mod. KXTS5LX-B, S/N° 9KAAA159154	30-Nov-00	65,486
61.05.06 128	Un Telefono Marca Panasonic Mod. KXTS5LX-B, S/N° 0BBAA216446	30-Nov-00	65,486
<b>Total Amount in 2000 PFY</b>			<b>27,121,056</b>
61.05.06 115	Un CPU COMPAQ DESPRO P450 S/N° F936CJM 81310	31-Dec-01	3,448,296
61.05.06 116	Un Monitor Color, Marca COMPAQ MV740 S/N° 044CE28JA878	31-Dec-01	1,275,000
61.05.06 117	Un Teclado COMPAQ S/N° B13AA0T39I3GAN	31-Dec-01	80,000
61.05.06 118	Una Impresora HP840C DESKJET S/N° HU08V2W0ZZ	31-Dec-01	713,407
61.05.06 132	Un CPU Marca COMPAQ DESKPRO EP/P500/64 LA MER S/N° F003DCZ51557	31-Dec-01	3,529,894
61.05.06 133	Un Teclado Marca COMPAQ S/N° 313AA0T39IFBXS	31-Dec-01	80,000
61.05.06 134	Un CPU Marca COMPAQ DESKPRO EP/P500/64 LA MER S/N° F003DCZ51580	31-Dec-01	3,529,894
61.05.06 135	Un Teclado Marca COMPAQ S/N° B13AA0T36IF68H	31-Dec-01	80,000
61.05.06 136	Un Monitor Color Marca COMPAQ MV740 S/N° BH6800291M-03	31-Dec-01	1,275,000
61.05.06 137	Una Impresora HP840C DESKJET S/N° HU08UZW0R5	31-Dec-01	713,407
61.05.06 138	Una Impresora HP840C DESKJET S/N° MX0591W0R5	31-Dec-01	713,407
61.05.06 139	Una Impresora HP840C DESKJET S/N° MX08P150MF	31-Dec-01	713,407
61.05.06 140	Un CPU COMPAQ DESKPRO P450T/6 S/N° F936CJM 81251	31-Dec-01	3,448,296
61.05.06 141	Un Teclado Marca COMPAQ S/N° B13AA0T39I360H	31-Dec-01	80,000
61.05.06 143	Un televisor Marca Color PHILLIPS de 29	31-Dec-01	2,352,960
61.05.06 144	Un Video Casetero Marca PHILIPS de 4 Cabelal S/N° JG0101283009350	31-Dec-01	532,040
61.05.06 147	Un Monitor Color Marca COMPAQ de 14 Pantalla Plana, S/N° 045BH56VA173	31-Dec-01	2,948,400
61.05.06 148	Un Monitor Color Marca COMPAQ de 14 Pantalla Plana, S/N° 045BH56VA172	31-Dec-01	2,948,400
61.05.06 159	Un Telefono PANASONIC Mod. DX-T510MX-W S/N° 8XBA335453	31-Dec-01	120,000
61.05.06 166	SOFTWARE MS WINDOWS 98 OEM Y MS OFFICE 2000 OEM	31-Dec-01	5,799,080
<b>Total Amount in 2001 PFY</b>			<b>34,380,888</b>
61.05.06 167	Una Silla Tapizada Cuadrada	9-May-02	73,950
61.05.06 170	Una Silla Tapizada Cuadrada	9-May-02	73,950
61.05.06 171	Una Silla Tapizada Cuadrada	9-May-02	73,950
61.05.06 172	Una Silla Tapizada Cuadrada	9-May-02	73,950

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# ANNEX 7 List of Equipment Supplied by INTN

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Feb/24/2003

INTN Property Num.	Description of Equipment	Delivery Time	Amount (guarani)
61.05.06 173	Una Silla Tapizada Cuadrada	9-May-02	73,950
61.05.06 174	Una Silla Tapizada Cuadrada	9-May-02	73,950
61.05.06 175	Un desecador + Tapa Bola CN/28.0 CM 300 1 Unidad Placa de Porcelana p/Desecador DN 300 1 Unidad	5-Jun-02	1,556,500
61.05.06 188	Una Radio Trasmisor HF de 100 Watts	3-Jul-02	6,792,625
61.05.06 189	Una Radio Transceptor de UHF y VHF	3-Jul-02	5,068,130
61.05.06 176	Un CPU Marca IBM SN KCA4VDW	13-Aug-02	7,385,300
61.05.06 177	Un Monitor Marca IBM E74 SN 55-XDC61	13-Aug-02	1,560,000
61.05.06 178	Un Teclado Marca IBM SN 01898387	13-Aug-02	162,500
61.05.06 180	Un CPU Marca IBM SN KCA4YDM	13-Aug-02	7,385,300
61.05.06 181	Un Monitor Marca IBM E74 SN 55-XDC84	13-Aug-02	1,560,000
61.05.06 182	Un Teclado Marca IBM SN 01841732	13-Aug-02	162,500
61.05.06 183	Un Software	13-Aug-02	2,025,354
61.05.06 184	Un CPU Marca IBM SN KCA4VDR	13-Aug-02	7,385,300
61.05.06 185	Un Monitor Marca IBM E74 SN 55-XDC23	13-Aug-02	1,560,000
61.05.06 186	Un Teclado Marca IBM SN 01900211	13-Aug-02	162,500
61.05.06 187	Un Software	13-Aug-02	2,025,354
61.05.06 179	Un Software	13-Aug-02	2,025,354
<b>Total Amount in 2001 PFY</b>			<b>47,260,417</b>
<b>Total</b>			<b>108,762,361</b>

# ANNEX 8 Budget Allocation for the Project (2000-2003)

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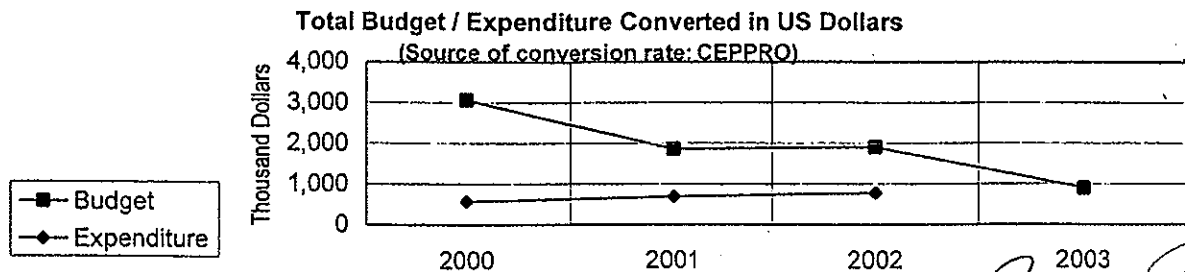
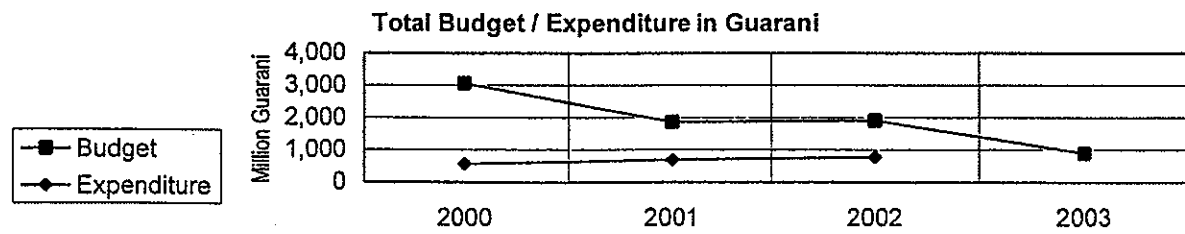
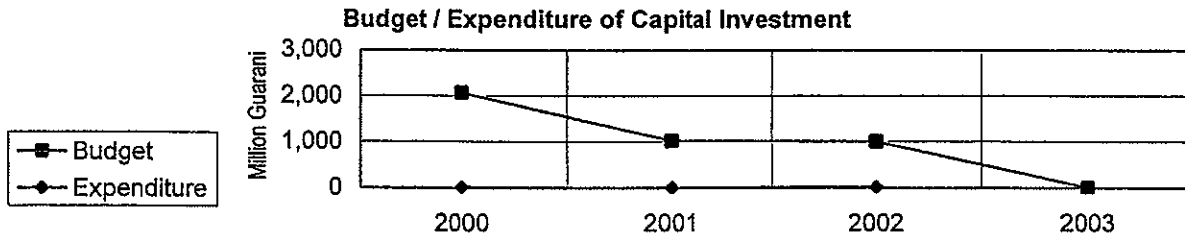
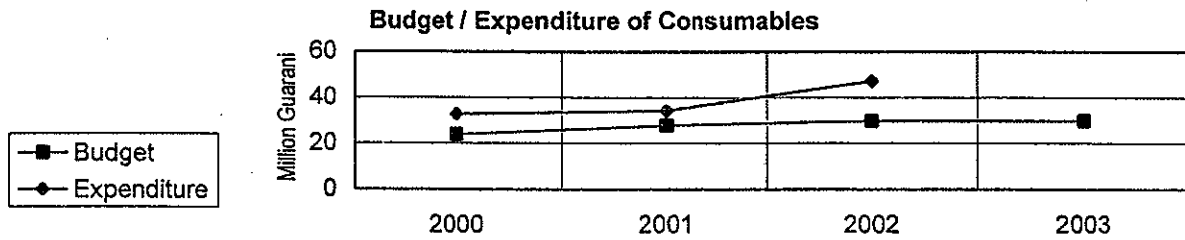
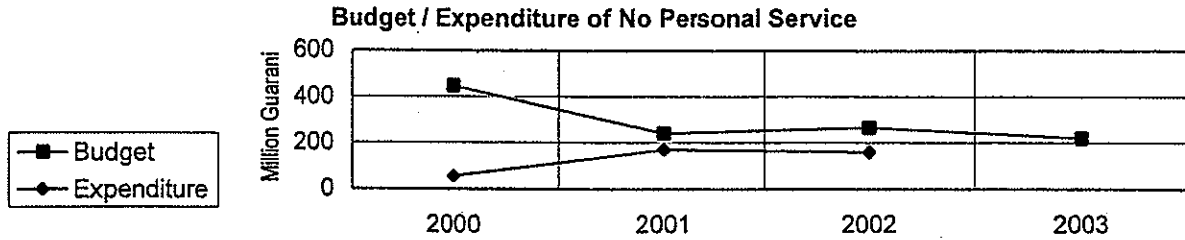
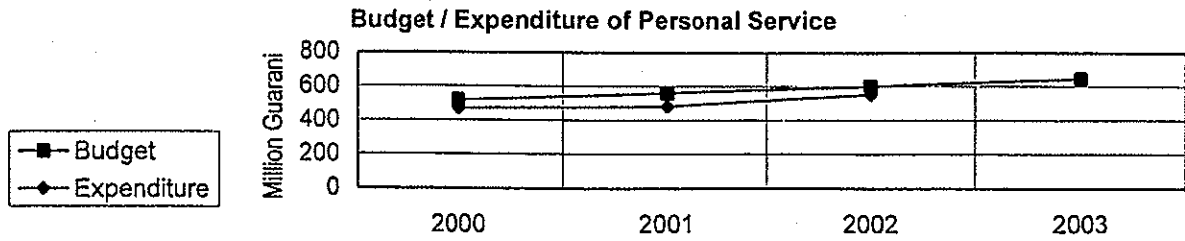
Comparative Table of the Result with the Budget Planned at the Implementation Study

(unit: Guarani)

Budgetary Item	2000		2001		2002		2003	
	Plan (A) Result (B)	Ratio (B/A)	Plan (A) Result (B)	Ratio (B/A)	Plan (A) Result (B)	Ratio (B/A)	Plan (A) Result (B)	Ratio (B/A)
<b>Personal Service</b>	519,207,244	90.7%	561,285,808	86.2%	602,072,232	91.8%	646,937,296	
<b>Serv. Person.</b>	470,855,309		484,064,050		552,949,283			
Salaries	324,285,120	100.0%	349,659,285	100.0%	377,570,868	97.5%	408,273,608	
Sueldos	324,285,120		349,659,285		367,982,400			
End of Year Bonus	27,023,760	100.0%	29,138,323	100.0%	31,464,344	97.5%	34,022,966	
Aguinaldo	27,023,760		29,138,323		30,665,000			
Overtime Payments	20,000,000	17.0%	25,000,000		25,000,000	9.3%	25,000,000	
Remuneración Extraordinaria	3,400,000		557,002		2,329,783			
Bonus	28,400,000	95.0%	31,240,000	100.0%	34,364,000	173.9%	37,800,400	
Bonificación y Gratificación	26,980,000		31,240,000		59,765,400			
Pension Charge	45,498,364	100.0%	50,048,200	100.0%	55,053,020	116.5%	60,558,322	
Aporte Jubilario del Empleador	45,498,364		50,048,200		64,149,492			
Daily Wages	22,000,000	100.0%	24,200,000	74.0%	26,620,000	78.1%	29,282,000	
Jornales Varios	22,000,000		17,908,000		20,800,000			
Professional Fee	52,000,000	41.7%	52,000,000	10.6%	52,000,000	14.0%	52,000,000	
Honorarios	21,668,065		5,513,240		7,257,208			
<b>No Personal Service</b>	448,000,000	12.6%	242,000,000	71.1%	267,000,000	60.2%	221,000,000	
<b>Serv. no Person.</b>	56,464,591		172,000,000		160,744,269			
Transportation & Strage	8,000,000	0.0%	2,000,000	0.0%	2,000,000	0.0%	1,000,000	
Trasnsp. y Almacen	0		0		0			
Traveling Fare	80,000,000	21.0%	100,000,000	86.0%	120,000,000	74.6%	100,000,000	
Pasaje y Viáticos	16,800,000		86,000,000		89,534,287			
Maintenance & Repair	20,000,000	8.0%	30,000,000	86.7%	35,000,000	32.0%	35,000,000	
Mantenimiento y Reparación	1,600,000		26,000,000		11,209,982			
Equipment insurance	40,000,000	75.0%	60,000,000	56.7%	60,000,000	100.0%	60,000,000	
Seguros	30,000,000		34,000,000		60,000,000			
Taxes, Fees & Fines	300,000,000	2.7%	50,000,000	52.0%	50,000,000	0.0%	25,000,000	
Impuestos y tasas	8,064,591		26,000,000		0			
<b>Consumables</b>	24,000,000	62.4%	28,000,000	14.3%	30,000,000	59.6%	30,000,000	
<b>Bienes y Consumo</b>	14,977,376		4,000,000		17,883,952			
Fuel	8,000,000	49.1%	10,000,000	40.0%	10,000,000	100.0%	10,000,000	
Combustibles y Lubrificantes	3,928,450		4,000,000		10,000,000			
Stationary	10,000,000	51.0%	10,000,000	0.0%	10,000,000	38.0%	10,000,000	
Bienes de Cons. de Oficina e Ins.	5,100,000		0		3,803,077			
Other Materials	6,000,000	99.1%	8,000,000	0.0%	10,000,000	40.8%	10,000,000	
Otros Materiales	5,948,926		0		4,080,875			
<b>Capital Investment</b>	2,070,000,000	1.6%	1,030,000,000	3.3%	1,010,000,000	4.7%	5,000,000	
<b>Capital</b>	32,967,249		34,380,888		47,260,417			
Vehicles								
Vehiculos								
Equipment	70,000,000	38.7%	30,000,000	114.6%	10,000,000	472.6%	5,000,000	
Adq. de Equipos de Oficina y Computación	27,121,056		34,380,888		47,260,417			
Construction	2,000,000,000	0.3%	1,000,000,000	0.0%	1,000,000,000	0.0%		
Construccion	5,846,193		0		0			
<b>Total</b>	3,061,207,244	18.8%	1,861,285,808	37.3%	1,909,072,232	40.8%	902,937,296	
	575,264,525		694,444,938		778,837,921			

Note: The amount of plan is the one showed at the time of the Implementation Study.

# ANNEX 8 Budget Allocation for the Project (2000-2003)



## ANNEX 9 Total Investment Provided by the Japanese Side

(unit: thousand yen)

Item of Expenses	1997 JFY	1998 JFY	1999 JFY	2000 JFY	2001 JFY	2002 JFY*	Total per Item
Dispatch of Study Team		4,580	10,652	3,746	4,620	9,078	32,676
Dispatch of Experts	-	-	8,493	53,273	72,435	65,125	199,326
C/P Training in Japan	-	-	1,891	1,345	2,828	-	6,064
Provision of Equipment	-	-	26,493	185,741	2,158	-	214,392
Supporting Local Cost	-	-	12,157	2,106	2,442	6,010	22,715
<b>Total per JFY</b>	<b>0</b>	<b>4,580</b>	<b>59,686</b>	<b>246,211</b>	<b>84,483</b>	<b>80,213</b>	<b>475,173</b>

Note: 1) Expenses on equipment accompanied by experts are included in expenses on dispatch of experts.

2) Supporting local cost of 1999 JFY is expenses on construction of laboratory.

3) The amount of expenditure is based on the approval in Japan.

# ANNEX 10 List of Dispatched Japanese Experts including Consultants

Feb/24/2003

	JFY No.	Name of Expert	Assigned Scope	Assigned Term
Long-term Experts	2000/1 1	Mr. Shinya Aoki	Chief Advisor	Jun/05/2000 ~ Jun/04/2003
	2000/2 2	Ms. Yumiko Ishihama	Project Coordinator	Jun/05/2000 ~ Jun/04/2002
	2000/3 3	Mr. Masakuni Ishii	Verification & Inspection	Jun/05/2000 ~ Jun/04/2002
	2000/4 4	Mr. Shozo Yano	Mass Standard	Sep/07/2000 ~ Jun/04/2003
	2002/1 5	Mr. Toshio Yamada	Verification & Inspection	May/08/2002 ~ Jun/04/2003
	2002/2 6	Mr. Sadanobu Ueno	Project Coordinator	May/18/2002 ~ Jun/04/2003
Short-term Experts	2001/1 1	Mr. Masanori Okonogi	Seminar lecturer at the Opening Ceremony	May/05/2001 ~ May/12/2001
	2001/2 2	Mr. Tatsumi Ueyama	Seminar lecturer at the Opening Ceremony	May/05/2001 ~ May/12/2001
	2001/3 3	Mr. Keizaburo Uchikawa	Uncertainty in case of Inspection	Jul/25/2001 ~ Sep/02/2001
	2002/1 4	Mr. Masaaki Izawa	International Recommendation - OIML R76	Aug/29/2002 ~ Oct/10/2002
Consultants	2000/1 1	Mr. Kiyoshi Yoshida	Examination of Constructors	Mar/27/2000 ~ Apr/13/2000
	2000/2 2	Mr. Kiyoshi Yoshida	Inspection of Construction Work	Aug/21/2000 ~ Sep/08/2000



## ANNEX 11 List of Counterpart Personnel Trained in Japan

Feb/24/2003

JFY No.	Name of Counterpart	Function in the Project	Subject of Training	Term of Acceptance
1999/1 1	Mr. Victor Manuel Gonzalez Gonzalez	Project Manager	Project Management	Mar/20/2000 ~ Mar/30/2000
1999/2 2	Ms. Dionisia Zully Milessi de Orrego	Project Coordinator	Project Management	Mar/20/2000 ~ Mar/30/2000
2000/1 3	Mr. Miguel Angel Garcia Diez Perez	Technical C/P	Calibration, Verification and Inspection	Jan/17/2001 ~ Mar/17/2001
2000/2 4	Mr. Shigueru Yano Ykeda	Technical Coordinator	Calibration, Verification and Inspection	Jan/17/2001 ~ Mar/17/2001
2001/1 5	Mr. Arnaldo Benito Florencio Etcheverry	Technical C/P	Calibration, Verification and Inspection	Sep//25/2001 ~ Dec/04/2001
2001/2 6	Mr. Silvio Zarza Correa	Technical C/P	Calibration, Verification and Inspection	Sep//25/2001 ~ Dec/04/2001

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**ANNEX 12-1 List of Machinery and Equipment Provided by the**  
**Japanese Side**

Feb/24/2003

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Delivery Time	Item	Unit Price (US\$)	Q'ty	Amount		Condition	JFY
				(US\$)	(¥)		
<b>Weight</b>							
Oct/05/2000	* Special Poid "Micronal" Rolled Steel For 500kg(40kg)x2=740x500x200 For 200kg(40kg)x1=500x500x130 For 100kg(20kg)x1=500x300x130	19,120 (total)	4	US\$19,120	¥2,064,960	A	99
Dec/14/2000	* Weight "Mettler Toledo (Switzerland)" Micronal, F1 1mg ~ 20kg 1,2,2,5Series, Stainless steel with Certificate & Accessories, 1mg ~ 5kg:15891, 10kg:15872, 20kg:15873	10,856	2	US\$21,712	¥2,431,744	A	99
Dec/14/2000	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 1mg ~ 20kg 1,2,2,5Series, Stainless steel without Certificate with Accessories, 1mg ~ 5kg:16185, 10kg:15992, 20kg:15993	5,945	4	US\$23,780	¥2,663,360	A	99
Dec/14/2000	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 10g ~ 2kg 1,2,2,5Series, Stainless steel without Certificate with Accessories, 16184	1,670	1	US\$1,670	¥187,040	A	99
Mar/21/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 set: 1mg ~ 200g 1,2,2,5Series, Stainless steel with Certificate & Accessories, 16181	1,840	1	US\$1,840	¥217,120	A	99
Mar/21/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 set: 1mg ~ 500mg 1,2,2,5Series, Stainless steel with Certificate & Accessories, 16180	407	1	US\$407	¥48,026	A	99
Mar/21/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 20kg, Stainless steel, Rectangular Bar Weight Type1: OIML	2,355	50	US\$117,750	¥13,894,500	A	99
Mar/21/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 10kg, Stainless steel, Rectangular Bar Weight Type1: OIML	1,838	10	US\$18,380	¥2,168,840	A	99
Mar/21/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, F2 5kg, Stainless steel, Rectangular Bar Weight Type1: OIML	1,281	10	US\$12,810	¥1,511,580	A	99
Apr/06/2001	* Weight "Mettler Toledo (Switzerland)" Micronal, E2 1mg ~ 20kg 1,2,5Series, Stainless steel 2sets with Certificate (NRLM) & Accessories 15849, 15850, 15851, 15852, 15886	50,610	1	US\$50,610	¥6,326,250	A	99
Apr/06/2001	* Weight "Nippono (Japan)" Micronal, F1 1000kg, Stainless steel With Certificate (NRLM), Surface Condition: Mirror Polished	33,710	1	US\$33,710	¥4,213,750	A	99
Apr/06/2001	* Weight "Nippono (Japan)" Micronal, F2 1000kg, Stainless steel	19,384	40	US\$775,360	¥96,920,000	B	99
Apr/06/2001	* Weight "Nippono (Japan)" Micronal, F2 500kg, Stainless steel	11,224	1	US\$11,224	¥1,403,000	A	99
Apr/06/2001	* Weight "Nippono (Japan)" Micronal, F2 200kg, Stainless steel	7,173	1	US\$7,173	¥896,625	A	99
Apr/06/2001	* Weight "Nippono (Japan)" Micronal, F2 100kg, Stainless steel	4,938	10	US\$49,380	¥6,172,500	A	99
<b>Equipment</b>							
Oct/05/2000	* Electronic Balance "Mettler Toledo (Switzerland)" Micronal, KA-30-3P, 2341045, Max.30kg	8,432	1	US\$8,432	¥910,656	A	99
Oct/05/2000	* Mass Comparator "Mettler Toledo (Switzerland)" Micronal, AT-10005 with Automatic Weight Handler, 1119232266, Max.10kg	94,084	1	US\$94,084	¥10,161,072	A	99
Oct/05/2000	* Mass Comparator "Mettler Toledo (Switzerland)" Micronal, AT-106H with Automatic Weight Handler, 111923226, Max.100g	54,240	1	US\$54,240	¥5,857,920	A	99

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**ANNEX 12-1 List of Machinery and Equipment Provided by the Japanese Side**

Feb/24/2003

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Delivery Time	Item	Unit Price (US\$)	Q'ty	Amount		Condition	JFY
				(US\$)	(¥)		
Oct/05/2000	* Electronic Micro Balance "Mettler Toledo (Switzerland)" Micronal, UMT5, 1119272084, Max.5g	14,552	1	US\$14,552	¥1,571,616	A	99
Oct/05/2000	* Volume Measuring Instrument "Mettler Toledo (Switzerland)" Micronal, PR2003+KA30-P with Mass Comparator, 2337393DMDIII, 2341049DMDII	24,398	1	US\$24,398	¥2,634,984	A	99
Oct/05/2000	* Digital THB Meter "Mettler Toledo (Switzerland)" Micronal, A30KLIMET with Certificate 0014 & 0015	19,744	2	US\$39,488	¥4,264,704	A	99
Oct/05/2000	* Electronic Balance "Mettler Toledo (Switzerland)" Micronal, PR5003, 1119263879, 5kg ~	7,056	1	US\$7,056	¥762,048	A	99
Oct/05/2000	* Mass Comparator "Mettler Toledo (Switzerland)" Micronal, AT1004, 1119272078,	22,728	1	US\$22,728	¥2,454,624	A	99
Oct/05/2000	* Mass Comparator "Mettler Toledo (Switzerland)" Micronal, AT106, 1119272085,	12,192	1	US\$12,192	¥1,316,736	A	99
Oct/05/2000	* Electronic Micro Balance "Mettler Toledo (Switzerland)" Micronal, UMT5, 1119272083, Max.5g	14,552	1	US\$14,552	¥1,571,616	A	99
Oct/05/2000	* Electronic Platform Scale "Mettler Toledo (Switzerland)" Micronal, KC1000 with centering pan, 2341046, Max.1200kg	22,616	1	US\$22,616	¥2,442,528	A	99
Oct/05/2000	* Electronic Platform Scale "Mettler Toledo (Switzerland)" Micronal, KC500-1 with centering pan, 2341047, Max.600kg	15,712	1	US\$15,712	¥1,696,896	A	99
Oct/05/2000	* Electronic Scale "Mettler Toledo (Switzerland)" Micronal, KA50-2, 2341048, Max.52kg	8,328	1	US\$8,328	¥899,424	A	99
Nov/14/2000	* $\mu$ meter "Dennshi jiki kogyosya (Japan)" Micronal, LP-141, 1262310008	1,350	1	US\$1,350	¥148,500	A	99
Mar/19/2001	* UPS "Merlin Gerin (France)" Consultronic, COMET S11-5-5-30kVA, 20A940017, 5,000VA/4,000W	6,000 (9,000-3,000)	1	US\$6,000	¥708,000	A	00
<b>Machine</b>							
Sep/04/2000	* Measuring Mobile with Crane "VOLVO (Brazil)" Rieder, FH 12 6X4R, Model 2000, Engine: D12C0192946, Chasis:93KA4B5D0YE672836 Crane "PALFINGER (Austria)" Hidraulica del Brasil, Model: PK-14080 BV2B, 0613100	153,759	1	US\$153,759	¥16,605,972	A	99
Nov/06/2000	* Electric Forklift "CLARK (USA)" Automaq, Model:CST-15, Max. cap. 1,365kg, CST-0373-6844	16,260	1	US\$16,260	¥1,788,600	A	99
Nov/23/2000	* Remote Control for Crane "PKRAN" Hidraulica del Brasil, Model: RC400, SNR12396I	6,785	1	US\$6,785	¥746,350	A	99
Dec/20/2000	* Mini-Compressor "SCHULZ (Brazil)" Micronal, MSV 10VL/200L, C-151010	1,400	1	US\$1,400	¥156,800	A	99
Mar/21/2001	* Digital Copy Machine "SHARP (China)" Officentro, AR-205, 06506857, Digital type, Add:AR-RP1, AR-EB3, AB-20ABD	5,450	1	US\$5,450	¥648,550	A	00
Dec/05/2002	* Diesel Forklift "TCM (Japan)" Elhim, Model:FD15T19, Max. cap. 1,500kg, S/N: 05111	15,950	1	US\$15,950	¥1,993,750	A	01
<b>Others</b>							
Sep/25/2000	* Preservation Box "Toyo Living (Japan)" Micronal, SD-1102-7	11,110	2	US\$22,220	¥2,399,760	A	99

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**ANNEX 12-1 List of Machinery and Equipment Provided by the Japanese Side**

Feb/24/2003

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Delivery Time	Item	Unit Price (US\$)	Q'ty	Amount		Condition	JFY
				(US\$)	(¥)		
Sep/25/2000	Anti-vibration table "Micronal (Local)" 800x800x650+800x800x100=2 800x800x300+800x800x100=1 1200x800x300+1200x800x100=1	7,350 (total)	4	US\$7,350	¥793,800	A	99
Sep/25/2000	Anti-vibration table "Micronal (Local)" 800x800x650+800x800x100	7,200 (total)	4	US\$7,200	¥777,600	A	99
Oct/05/2000	Wind-Proof Case "Mettler Toledo (Switzerland)" Micronal, 800x800x600=2, 800x800x600=1, 800x800x600(half of top door)=1	8,800 (total)	4	US\$8,800	¥950,400	A	99
Mar/21/2001	Glass Vessel/Bell-Jar "Mettler Toledo (Switzerland)" Micronal, 300x200mm, 300x300mm	4,260 (total)	4	US\$4,260	¥502,680	A	99
Mar/21/2001	Base-Plate for Glass Vessel/Bell-Jar "Mettler Toledo (Switzerland)" Micronal, Special alloy (300Φmm)	8	4	US\$32	¥3,776	A	99
<b>Consumables and Charges</b>				US\$134,454	¥16,806,750		
<b>Total</b>				US\$1,874,574	¥222,695,407		

Note 1: <Condition>

A: Good condition

B: Need minor repair

C: Need replacement or major repair

2: Equipment marked \* are controled in the Register of Equipment with Maintenance Record

## ANNEX 12-2 List of Other Equipment Provided by the Japanese Side

Feb/24/2003

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### 1. Equipment Accompanied by Japanese Experts

Delivery Time	Item	Name of Expert	Unit Price	Q'ty	Amount		Condition	JFY
					(¥)	(US\$)		
Sep/12/2000	Multi Tester "Sanwa (Japan)" SP-21 with Carrying Case	Aoki	¥7,800	1	¥7,800	US\$72	A	00
Sep/12/2000	Tool Set "Hozan (Japan)" S-80	Aoki	¥102,500	1	¥102,500	US\$949	A	00
Sep/12/2000	* Digimatic Caliper "Mitutoyo (Japan)" CFC-60L	Aoki	¥105,000	1	¥105,000	US\$972	A	00
Sep/12/2000	Plastic Digital Caliper "Mitutoyo (Japan)" Digipa, PC-15JG	Aoki	¥4,300	1	¥4,300	US\$40	A	00
Sep/12/2000	Scaled Magnifier with Illumination "***** (Japan)" L-90, Spare Part: 01 Spare Lamp	Aoki	¥17,200	1	¥17,200	US\$159	A	00
Sep/12/2000	Surface Plate "Obishi Keiki (Japan)" Material: Aluminum, Accessory: 01 Stand for adjusting level	Aoki	¥258,000	1	¥258,000	US\$2,389	A	00
Sep/12/2000	Belt Sling "Trusco (Japan)" G50-10	Aoki	¥4,000	5	¥20,000	US\$185	A	00
Sep/12/2000	Belt Sling "Trusco (Japan)" G35-10	Aoki	¥2,800	3	¥8,400	US\$78	A	00
Sep/12/2000	Belt Sling "Trusco (Japan)" G25-10	Aoki	¥2,100	3	¥6,300	US\$58	A	00
Sep/12/2000	Belt Sling "Trusco (Japan)" G35-40	Aoki	¥6,300	4	¥25,200	US\$233	A	00
Sep/12/2000	Steel Stamp "Trusco (Japan)" H3MM W2MM, 10pcs/set	Aoki	¥3,600	1	¥3,600	US\$33	A	00
Sep/12/2000	Steel Stamp "Trusco (Japan)" H10MM W6.6MM, 27pcs/set	Aoki	¥29,800	1	¥29,800	US\$276	A	00
Sep/12/2000	Personnel Computer "Machintosh (Japan)" Powerbook G3/500, Accessory: Softwares, 01 Mouse, 01 FD drive, 01 Carrying case	Ishihama	¥605,800	1	¥605,800	US\$5,609	A	00
Sep/12/2000	Ink-jet Printer "Canon (Japan)" BJ-M70, Accessory: 01 Power cable, 01 Carrying case	Ishihama	¥46,600	1	¥46,600	US\$431	B	00
Sep/12/2000	Digital Camera "Canon (Japan)" Powershot S20, Accessories: 01 Connecting kit, 01 PC card adaptor	Ishihama	¥90,200	1	¥90,200	US\$835	A	00
Sep/12/2000	Flat Level "Obishi Keiki (Japan)" 300mm	Ishii	¥43,200	1	¥43,200	US\$400	A	00
Sep/28/2000	Flat Level "Obishi Keiki (Japan)" 150mm	Yano	¥32,000	1	¥32,000	US\$296	A	00
Sep/28/2000	Personnel Computer "Compaq (Japan)" Armada V300, Accessory: 01 Mouse	Yano	¥242,600	1	¥242,600	US\$2,246	A	00
Sep/28/2000	Ink-jet Printer "Epson (Japan)" PM-770C, Accessory: 01 Cable	Yano	¥70,500	1	¥70,500	US\$653	A	00
Sep/28/2000	Transformer "Sugano (Japan)" 100AE	Yano	¥9,000	1	¥9,000	US\$83	A	00
Dec/12/2000	Digital Thermo-Hygrometer "Chino (Japan)" HN-AK	Yano	¥91,000	1	¥91,000	US\$813	A	00
Jan/26/2001	Personnel Computer "Compaq (Japan)" Presario 3ST220 2133244-291, 15" Display MV540	Ishii	¥277,798	1	¥277,798	US\$2,437	A	00
Feb/14/2001	Personnel Computer "Compaq (Japan)" Presario 3ST220 2133244-291, 15" Display MV540	Aoki	¥326,198	1	¥326,198	US\$2,741	A	00
Mar/19/2001	Microsurf Set "Rubert (Japan)" No.315	Yano	¥15,100	1	¥15,100	US\$128	A	00
Mar/19/2001	Microsurf Set "Rubert (Japan)" No.315	Yano	¥15,100	1	¥15,100	US\$128	A	00
Mar/19/2001	Sample Board of Surface Roughness Set "Rubert (Japan)" No.130	Yano	¥41,600	1	¥41,600	US\$353	A	00
Mar/19/2001	Shoes Cover "Makiguchi (Japan)" PVC	Yano	¥110	200	¥22,000	US\$186	A	00
Mar/19/2001	Disposable Glove "Iuchi (Japan)" 88-1052-18, NBR, 0.1mm L, 100pcs/set	Yano	¥4,500	2	¥9,000	US\$76	A	00
Jul/26/2001	* F2 Class Weights Set "Murakami Koki (Japan)" 100g-1mg, 21pcs/set, Stainless	Uchikawa	¥114,000	1	¥114,000	US\$905	A	01
Jul/26/2001	Belt Sling (Japan) "Trusco" 3E75-1M	Uchikawa	¥4,500	3	¥13,500	US\$107	A	01
Jul/26/2001	Stopwatch "Seiko (Japan)" STBW010	Uchikawa	¥8,000	1	¥8,000	US\$63	A	01

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## ANNEX 12-2 List of Other Equipment Provided by the Japanese Side

Feb/24/2003

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Delivery Time	Item	Name of Expert	Unit Price	Q'ty	Amount		Condition	JFY
					(¥)	(US\$)		
May/21/2002	Portable Hard Disk "Meico (Japan)" Buffalo DUB-P40G	Ueno	¥30,400	1	¥30,400	US\$232	A	02
May/21/2002	Personnel Computer "Dell (Brazil)" Dimension 4100	Ueno	¥365,376	1	¥365,376	US\$2,789	A	-
May/21/2002	Cassette Tape Recorder "Sony (Japan)" TCM-80V(JE)	Ueno	¥21,115	1	¥21,115	US\$161	A	-
May/21/2002	Powerful Stapler "Plus (Japan)" ST-050M	Ueno	¥27,295	1	¥27,295	US\$208	A	-
May/21/2002	Powerful Punch "Lion (Japan)" No.300	Ueno	¥16,274	1	¥16,274	US\$124	A	-
Jun/26/2002	Personnel Computer "IBM (Japan)" ThinkPad R31, Accessories: 01 USB FD device, 01 USB cable, 01 Mouse, 01 Carrying case	Yamada	¥280,200	1	¥280,200	US\$2,224	A	02
<b>Total</b>						¥3,401,956 US\$29,676		

### 2. Equipment Purchased by Local Budget

Delivery Time	Item	Unit Price	Q'ty	Amount		Condition	JFY
				(Gs.)	(US\$)		
Dec/15/2000	Special Palette "Carpinteria Mecánica"	Gs 825,000	1	Gs 825,000	US\$233	A	00
Jan/09/2001	Vacuum Cleaner "Philips" HR-8731	Gs 878,000	1	Gs 878,000	US\$247	A	00
Jan/24/2001	Windshield Case "Herraria Artistica Diez"	Gs 550,000	2	Gs 1,100,000	US\$310	A	00
Jan/24/2001	Surface Plate "Herraria Artistica Diez" Material: Copper	Gs 825,000	1	Gs 825,000	US\$232	A	00
Jan/24/2001	Handcart "Herraria Artistica Diez"	Gs 825,000	2	Gs 1,650,000	US\$465	A	00
Jan/24/2001	Hand Truck for Weights "Herraria Artistica Diez"	Gs 660,000	1	Gs 660,000	US\$186	A	00
Jan/24/2001	Windshield Case "Herraria Artistica Diez"	Gs 770,000	1	Gs 770,000	US\$217	A	00
Feb/05/2001	Transceiver "Kenwood" 2pcs/set	Gs 401,500	1	Gs 401,500	US\$112	A	00
May/09/2001	Metalic Filing Cabinet "Silvestri"	Gs 661,100	5	Gs 3,305,500	US\$870	A	00
May/09/2001	House for Compressor "Emilio Herman Duran"	Gs 1,870,000	1	Gs 1,870,000	US\$492	A	00
Aug/21/2001	Fork for Carrying Weights "Mettler" for 500g - 1kg	Gs 667,250	1	Gs 667,250	US\$157	A	01
Aug/21/2001	Fork for Carrying Weights "Mettler" for over 5kg	Gs 967,500	1	Gs 967,500	US\$227	A	01
Jan/15/2002	Paper Cutter "Ideal" 1034	Gs 775,200	1	Gs 775,200	US\$167	A	01
Jan/21/2002	UPS "Liebert" PowerSure Proactive 700VA	Gs 656,100	2	Gs 1,312,200	US\$283	A	01
Jan/23/2002	External CD-RW "LG" GCE-8160B	Gs 1,899,300	1	Gs 1,899,300	US\$410	A	01
Feb/05/2002	External CD-RW "LG" GCE-8160B	Gs 1,899,300	1	Gs 1,899,300	US\$392	A	01
Mar/14/2002	Transceiver "Kenwood" 2pcs/set	Gs 1,089,000	1	Gs 1,089,000	US\$221	A	01
Mar/14/2002	* Counter Type Weights "Murakami Koki" 5kg, OIML F2, Material: Stainless	Gs 5,691,400	2	Gs 11,382,800	US\$2,314	A	01
Mar/14/2002	* Working Weights "Sartorius" YCS01-514-00, 1mg-100g, OIML F2	Gs 4,345,000	1	Gs 4,345,000	US\$883	A	01
Mar/14/2002	* Counter Type Weights "Murakami Koki" 2kgx1, 1kgx2, 200gx2, 100gx1, OIML F2	Gs 6,999,850	1	Gs 6,999,850	US\$1,423	A	01
Jun/10/2002	UPS "Liebert" PowerSure Proactive 700VA	Gs 1,112,400	1	Gs 1,112,400	US\$213	A	02
<b>Total</b>					Gs 44,734,800 US\$10,055		

Note 1: <Condition>

A: Good condition

B: Need minor repair

C: Need replacement or major repair

2: Equipment marked \* are controled in the Register of Equipment with Maintenance Record

## ANNEX 13 Supporting Local Cost Provided by the Japanese Side

Feb/24/2003

(unit: thousand yen)

Item of Expenses	1999 JFY	2000 JFY	2001 JFY	2002 JFY	Total per Item
Operating Expenses		2,016	1,460	1,844	5,320
Construction of Laboratory	12,157				12,157
Seminar / Ceremony			396	180	576
Making of Pamphlet		90	300	212	602
Survey and P.R.			286		286
Exchange of Technologies				993	993
Making of P.R. Video				1,056	1,056
Explanation Meetings				401	401
Construction of Garage				783	783
Questionnaire Survey				542	542
<b>Total per JFY</b>	<b>12,157</b>	<b>2,106</b>	<b>2,442</b>	<b>6,011</b>	<b>22,716</b>

Note: Expenses on Making of textbooks are included in Operating expenses.

# ANNEX 14 List of Joint Coordinating Committee

	Date	Paraguayan Side		Japanese Side		Observers	
1st	Dec/05/2000 At INTN	1. Sectional Director of STP 2. Sectional Director of MIC 3. Project Director 4. Project Manager 5. Project Coordinator 6. Technical Coordinator 7. Manager of CAPECO 8. Manager of CADELPA	Mr. Mario Ruiz Diaz Mr. Anibal Gimenez Kullak Mr. José Martino Vargas Mr. Victor M. Gonzalez Ms. Zully M. Orrego Mr. Shigueru Yano Ykeda Mr. Ignacio Santiago Mr. Lino Morel	1. Deputy Resident Representative of JICA PY 2. Project Officer of JICA PY 3. Chief Advisor 4. Project Coordinator 5. Long-term Expert 6. Long-term Expert	Ms. Kyoka Noguchi Mr. Miguel T. Hirai Mr. Shinya Aoki Ms. Yumiko Ishihama Mr. Masakuni Ishii Mr. Syozo Yano	1. Council Member of INTN 2. Chief of Dept. of OFAT-MAG 3. Manager of CAPECO 4. Manager of CADELPA 5. Coordinator of UIP 6. Expert of JICA in STP	Mr. Ricardo Felippo Mr. Carlos Jara Alonzo Mr. Ignacio Santiago Mr. Lino Morel Mr. Juan Carlos Urbieta Ing. Kiyofumi Nakauchi
2nd	Jun/07/2001 At INTN	1. Sectional Director of STP 2. Asistent Technician of STP 3. Sectional Director of MIC 4. Asistent of MIC 5. Project Manager 6. Project Coordinator 7. Technical C/P 8. Technical C/P 9. Technical C/P 10. Technical C/P	Mr. Mario Ruiz Diaz Mr. Gustavo Rivera Mr. Antonio Ferreira Mr. Dario Peralta Mr. Victor M. González Ms. Zully M. Orrego Mr. Shigueru Yano Ykeda Mr. Silvio Zarza Mr. Arnaldó Florencio Mr. Miguel Garcia	1. Deputy Resident Representative of JICA PY 2. Project Officer of JICA PY 3. Chief Advisor 4. Project Coordinator 5. Long-term Expert 6. Long-term Expert	Ms. Kyoka Noguchi Mr. Miguel T. Hirai Mr. Shinya Aoki Ms. Yumiko Ishihama Mr. Masakuni Ishii Mr. Shozo Yano	1. Council Member of INTN 2. Council Member of INTN 3. Council Member of INTN 4. Council Member of INTN 5. Manager of CAPECO 6. Repr. of ASOQUIMFA 7. Second Secretary of Emb. of JP 8. Asistent of Emb. of JP	Mr. Alejandro M Garcia de Zuniga Mr. José Manuel Abreu Ms. José Gómez Ms. Lilian Martínez de Alonso Mr. Ignacio Santiago Ms. Rosa Morel Mr. Tsuyoshi Takemura Mr. Kaoru Yanaguida
3rd	Mar/12/2002 At INTN	1. STP 2. Project Director 3. Project Manager 4. Project Coordinator 5. Technical Coordinator 6. Technical C/P 7. Technical C/P 8. Technical C/P 9. Technical C/P	Mr. Pedro Sosa Mr. Ramón Codas Mr. Victor M. González Ms. Zully M. Orrego Mr. Shigueru Yano Ykeda Mr. Ever Cabrera Mr. Ricardo Ramírez Mr. Arnaldo Florencio Mr. Miguel Garcia	1. Leader of Study Team 2. Member of Study Team 3. Member of Study Team 4. Member of Study Team 5. Deputy Resident Representative of JICA PY 6. Project Officer of JICA PY 7. Chief Advisor 8. Project Coordinator 9. Long-term Expert 10. Long-term Expert	Mr. Koichi Takizawa Mr. Kazuo Neda Mr. Toshio Yamada Mr. Natsuko Ozaki Ms. Kyoka Noguchi Mr. Miguel T. Hirai Mr. Shinya Aoki Ms. Yumiko Ishihama Mr. Masakuni Ishii Mr. Shozo Yano	1. Council Member of INTN 2. Council Member of INTN 3. Advisor of MAG 4. Economist 5. Technician of MAG-OFAT 6. Representative of CAPECO 7. Coordinator of CEMIT 8. Laboratory of CIE 9. Repr. of ASOQUIMFA 10. Laboratorio Costanzo 11. Expert of JICA in STP 12. Expert of JICA in MIC	Mr. Carlos Rojas Mr. Carlos Rojas Mr. Ramon Ferrari Mr. Pablo Britez Mr. Cristian Britos Mr. Ariel de Souza Machado Mr. Nelson Alvarenga Ms. Manuela Ibañez Ms. Rosa Morel Mr. Victor Costanzo Mr. Kiyofumi Nakauchi Mr. Hiroshi Shindo
4th	Jun/28/2002 At INTN	1. STP 2. Sectional Director of STP 3. Project Director 4. Project Manager 5. Technical Coordinator 6. Technical C/P 7. Technical C/P 8. Technical C/P 9. Technical C/P	Mr. Pedro Sosa Mr. Mario Ruiz Diaz Ms. Lilian Martínez de Alonso Ms. Zully M. Orrego Mr. Shigueru Yano Ykeda Mr. Arnaldo Florencio Mr. Ricardo Ramírez Mr. Miguel Garcia Mr. Ever Cabrera	1. Deputy Resident Representative of JICA PY 2. Project Officer of JICA PY 3. Chief Advisor 4. Project Coordinator 5. Long-term Expert 6. Long-term Expert	Ms. Kyoka Noguchi Mr. Miguel T. Hirai Mr. Shinya Aoki Mr. Sadanobu Ueno Mr. Shozo Yano Mr. Toshio Yamada	1. Director of P.P. of MAG 2. Chief of Dept. of MAG 3. Chief of Dept. of MAG 4. Manager of Quality of LASCA 5. Chief of Dept. of CIE 6. Assistant of CIE 7. Director of CEMIT	Mr. Ladislao Acosta Mr. Gilberto González Mr. Ruben Medina Ms. Ruth Gimenez Mr. Marcos Marínez Ms. Manuela Ibañez Mr. Antonio Figueredo

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance				Main Issues Discussed
		Paraguayan		Japanese		
1	Nov/21/2000 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Lic. Silvio Zarza 4) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii	Chief Advisor Project Coordinator Expert	1. Insurance for measuring mobile 2. Budget for desiccators 3. Deliver of crystal liquid monitor
2	Nov/28/2000 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Lic. Silvio Zarza 4) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii	Chief Advisor Project Coordinator Expert	1. Opening ceremony and seminar
3	Dic/05/2000 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Lic. Silvio Zarza 4) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano	Chief Advisor Project Coordinator Expert Expert	1. Planning such as 1st JCC minutes and opening ceremony 2. Provision of equipment such as crystal liquid monitor, PC, weights, compressor
4	Ene/16/2001 Int. Moraoka	1) Lic. Zully Milessi 2) Ing. Silvio Zarza 3) Lic. Arnaldo Florencio	Project Coordinator Technical C/P Technical C/P	1) Yumiko Ishihama 2) Shozo Yano	Project Coordinator Expert	1. Provision of equipment such as weights, desiccators 2. Number plate for measuring mobile
5	Feb/08/2001 Int.: Muraoka	1) Lic. Zully Milessi 2) Ing. Silvio Zarza 3) Lic. Arnaldo Florencio	Project Coordinator Technical C/P Technical C/P	1) Yumiko Ishihama 2) Masakuni Ishii 3) Shozo Yano	Project Coordinator Expert Expert	1. Provision of equipment such as PC, desiccators 2. Number plate for measuring mobile 3. Opening ceremony and seminar
6	Feb/20/2001 Int.: Muraoka	1) Dr. Victor González 2) Lic. Zully Milessi 3) Ing. Silvio Zarza 4) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii	Chief Advisor Project Coordinator Expert	1. JICA information about actual situation of Japanese ODA 2. Provision of equipment such as weights, PC, compressor, desiccators 3. Procedures of application A4
7	Mar/06/2001 Int.: Yokoyama	1) Dr. Victor González 2) Lic. Zully Milessi 3) Ing. Silvio Zarza 4) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii	Chief Advisor Project Coordinator Expert	1. Planning such as Mercosur meeting (Ms. Zully and C/P Zarza) 2. Budget such as software, LAN, technical books, bookshelf 3. Personal history of the new director
8	Mar/20/2001 Int.: Muraoka	1) Dr. Victor González 2) Lic. Zully Milessi 3) Ing. Miguel García	Project Manager Project Coordinator Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Planning such as documentation of Mr. Ishii's material 2. Provision of equipment such as weights, UPS, copy machine, 3. Installation of iron barred window 4. Purchase of textbooks (Budget US\$1000) and 2 bookshelves
9	Abr/03/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio	Project Manager Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Planning such as opening ceremony, working time of INTN, 2. Working time of INTN 3. Making of pamphlet 4. Delivery of weights
10	Abr/17/2001 Int.: Nagai	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Lic. Sivio Zarza 5) Ing. Miquet Garcia 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Visit from MFA Japan and Japanese embassy 2. Deliver of weights 3. Opening ceremony and seminar about important visitors
11	May/02/2001 Int.: Muraoka	1) Dr. Victor González 2) Lic. Silvio Zarza	Project Manager Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano	Chief Advisor Project Coordinator Expert Expert	1. 2nd JCC on June 6 and 7 2. Visit of Japanese mission on May 15 and 16 3. Opening ceremony about memorial plate and national anthem

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance				Main Issues Discussed
		Paraguayan		Japanese		
12	May/17/2001 Int.: Muraoka	1) Dr. Victor González 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Silvio Zarza 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Visit of director of JICA 2. JCC on June 7 and 8 3. Dispatch of short-term expert from July 29 to August 29 4. Vacation of Mr. Ishii 5. Making of Application A2/3
13	Jun/05/2001 Int.: Muraoka	1) Dr. Victor González 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Silvio Zarza 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi * Sr. Shin Muraoka	Chief Advisor Project Coordinator Expert Expert Asistent Interpreter	1. Travel of Ms. Ishihama 2. C/P training in Japan of Mr. Zarza and Florencio 3. On the job training with Mr. Ishii
14	Jun/19/2001 Int. Moraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P	1) Yumiko Ishihama 2) Masakuni Ishii 3) Shozo Yano 4) Andrés Kikuchi	Project Coordinator Expert Expert Asistent	1. Minutes of JCC 2. Planning of 3rd JCC in January 2002 3. Vacation of Japanese experts 4. Control of laboratory key
15	Jul/04/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Silvio Zarza 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Yumiko Ishihama 2) Masakuni Ishii 3) Shozo Yano 4) Andrés Kikuchi	Project Coordinator Expert Expert Asistent	1. Confirmation of dispatch of short-term expert Mr. Uchikawa 2. Permission of one week of holiday of Ms. Zully 3. Planning of 3rd JCC together with mid-term evaluation
16	Jul/17/2001 Int.: Matsumoto	1) Dr. Victor Gonzalez 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Silvio Zarza 5) Lic. Arnaldo Florencio 6) Ing. Ever Cabrera	Project Manager Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Yumiko Ishihama 2) Masakuni Ishii 3) Shozo Yano 4) Andrés Kikuchi	Project Coordinator Expert Expert Asistent	1. Schedule of mid-term evaluation mission 2. Arrival of Mr. Uchikawa on June 26 3. Provision of desiccator 4. Making of pamphlet 5. Invitation of inter comparison of weights E2
17	Ago/09/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Silvio Zarza 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Shozo Yano 3) Uchikawa 4) Andrés Kikuchi	Chief Advisor Expert Expert C.P. Asistent	1. Vacation of Japanese experts 2. C/P training in Japan of Mr. Zarza and Florencio 3. Planning of seminar to be announced by Mr. Uchikawa on Ann/04
18	Ago/21/2001 Int. Kikuchi	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Silvio Zarza 6) Lic. Arnaldo Florencio	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Shozo Yano 3) Uchikawa 4) Andrés Kikuchi	Chief Advisor Expert Expert C.P. Asistent	1. Seminar about uncertainty by Mr. Uchikawa 2. Confirmation of C/P training in Japan from Sep/25 to Dec/04
19	Oct/16/2001 Int.: Hisaoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Mid-term evaluation 2. Making of pamphlet for scale users 3. Joining of Ricardo as C/P on Dec/03

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance				Main Issues Discussed
		Paraguayan		Japanese		
20	Oct/26/2001 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Ing. Ricardo Ramirez	Project Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Mid-term evaluation 2. Making of pamphlet for scale users 3. Participation of Ms. Zully in Mercosur meeting (Montevideo) 4. Confirmation of provision of forklift through JICA
21	Nov/06/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia	Project Manager Project Coordinator Technical Coordinator Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Mid-term evaluation 2. Visit of PTB expert al INTN
22	Nov/20/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Ing. Ricardo Ramirez	Project Manager Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Participation of Ms. Zully in Mercosur meeting (Bs.As.) 2. Making of pamphlet for scale users
23	Dic/04/2001 Int.: Muraoka	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Mid-term evaluation 2. Making of pamphlet 3. Participation of Mr. González in SIM (USA) on Dec/6-17
24	Dic/18/2001 Int.: Nagai	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Ing. Silvio Zarza 6) Lic. Arnaldo Florencio 7) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Schedule of mid-term evaluation 2. Making of pamphlet for scale entrepreneurs 3. Installation of telephone in the laboratory and air-conditioner 4. C/P training in Japan (C/P Zarza, Florencio) 5. Procedure of permission of MOPC on overweight of track
25	Feb/13/2002 Int.: Matsumoto	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Resignation of Mr. Zarza presented to NTN on Feb/04 2. Confirmation of schedule of Mid-term Evaluation Team 3. Confirmation of JCC on Mar/12
26	Feb/19/2002 Int.: Nagai	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Arnaldo Florencio 6) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Program of Mid-term Evaluation - Interview with MIC Minister on Mar/07 - Lunch provided by INTN - Extraordinary meeting on Mar/09
27	Feb/26/2002 Int.: Nagai	1) Dr. Victor Gonzalez 2) Lic. Zully Milessi 3) Ing. Shiqueru Yano 4) Ing. Miguel Garcia 5) Lic. Arnaldo Florencio 6) Ing. Ricardo Ramirez	Project Manager Project Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Yumiko Ishihama 3) Masakuni Ishii 4) Shozo Yano 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Program of Mid-term Evaluation - Explanation of documents prepared by the Project to the team 2. Confirmation of JCC on Mar/01

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance		Main Issues Discussed
		Paraguayan	Japanese	
28	Mar/05/2002 Int.: Muraoka	1) Dr. Victor Gonzalez Project Manager 2) Lic. Zully Milessi Project Coordinator 3) Ing. Shiqueru Yano Technical Coordinator 4) Ing. Miquel Garcia Technical C/P 5) Lic. Arnaldo Florencio Technical C/P 6) Ing. Ricardo Ramirez Technical C/P 7) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Masakuni Ishii Expert 4) Shozo Yano Expert 5) Andrés Kikuchi Asistent	1. Review of documents for Mid-term Evaluation 2. Review for documents for JCC and minutes 3. Participation of Ms. Zully in Mercosur meeting in Argentine (Mar/18-22)
29	Mar/19/2002 Int.: Matsumoto	1) Dr. Victor Gonzalez Project Manager 2) Ing. Shiqueru Yano Technical Coordinator 3) Ing. Miquel Garcia Technical C/P 4) Lic. Arnaldo Florencio Technical C/P 5) Ing. Ricardo Ramirez Technical C/P 6) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Masakuni Ishii Expert 4) Shozo Yano Expert 5) Andrés Kikuchi Asistent	1. Visit of Cria Project team on Mar/20 2. Visit of representative of JP Embassy in PY & AR on Mar/20 3. Visit of Chilean expert on Mar/20 4. Provision of transceiver 5. Deliver of verification manual
30	Abr/02/2002 Int.: Nagai	1) Dr. Victor Gonzalez Project Manager 2) Lic. Zully Milessi Project Coordinator 3) Ing. Shiqueru Yano Technical Coordinator 4) Ing. Miquel Garcia Technical C/P 5) Lic. Arnaldo Florencio Technical C/P 6) Ing. Ricardo Ramirez Technical C/P 7) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Masakuni Ishii Expert 4) Shozo Yano Expert 5) Andrés Kikuchi Asistent	1. Visit of PTB expert to INTN Apr/13-20 2. Maintenance of battery of forklift by INTN 3. Successors of Mr. Ishii & Ms. Ishihama 4. Procedure for provision of desiccators by INTN
31	Abr/23/2002 Int.: Matsumoto	1) Dr. Victor Gonzalez Project Manager 2) Lic. Zully Milessi Project Coordinator 3) Ing. Shiqueru Yano Technical Coordinator 4) Ing. Miquel Garcia Technical C/P 5) Lic. Arnaldo Florencio Technical C/P 6) Ing. Ricardo Ramirez Technical C/P 7) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Masakuni Ishii Expert 4) Shozo Yano Expert 5) Andrés Kikuchi Asistent	1. Arrival schedule of successors of Mr. Ishii & Ms. Ishihama 2. Change of INTN director from Mr. Codas to Ms. Lilian Martinez
32	May/07/2002 Int.: Matsumoto	1) Dr. Victor Gonzalez Project Manager 2) Lic. Zully Milessi Project Coordinator 3) Ing. Shiqueru Yano Technical Coordinator 4) Ing. Miquel Garcia Technical C/P 5) Lic. Arnaldo Florencio Technical C/P 6) Ing. Ricardo Ramirez Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Masakuni Ishii Expert 4) Shozo Yano Expert 5) Andrés Kikuchi Asistent	1. Visit of JICA experts & voluntaries on May/24 2. Provision of desiccators 3. Change of post of Mr. Gonzalez to technical advisor
33	May/23/2002 Int.: Matsumoto	1) Lic. Zully Milessi Project Manager/Coordinator 2) Lic. Arnaldo Florencio Technical C/P 3) Ing. Ricardo Ramirez Technical C/P 4) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Yumiko Ishihama Project Coordinator 3) Sadanobu Ueno Project Coordinator 4) Masakuni Ishii Expert 5) Toshio Yamada Expert 6) Andrés Kikuchi Asistent	1. Introduction of Mr. Yamada & Mr. Ueno 2. Permission of MOPC about traffic of measuring mobile 3. Supply of desiccators on May/16 4. Approbation of budget for maintenance of battery of forklift 5. Participation of Ms. Zully in EU-Mercosur meeting (Jun/01-21)
34	Jun/04/2002 Int.: Nagai	1) Ing. Shiqueru Yano Technical Coordinator 2) Ing. Miquel Garcia Technical C/P 3) Lic. Arnaldo Florencio Technical C/P 4) Ing. Ricardo Ramirez Technical C/P 5) Ing. Ever Cabrera Technical C/P	1) Shinya Aoki Chief Advisor 2) Sadanobu Ueno Project Coordinator 3) Shozo Yano Expert 4) Toshio Yamada Expert 5) Andrés Kikuchi Asistent	1. Scheduling of 4th JCC on Jun/28 2. Vacation of Mr. Yano in Japan (Jul/07-22) 3. Vacation of Mr. Ricardo & Ever (Jul/08-17) 4. Information about dispatch of SE (OIML R76-1) in Oct/Nov

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance				Main Issues Discussed
		Paraguayan		Japanese		
35	Jun/25/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez 6) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Schedule of Provision of new forklift 2. Making of the Project video 3. Program for holding a series of explanation meetings 4. Program for exchange of technologies in UR & BR
36	Jul/02/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Elaboration of Minutes of JCC by Jul/19 2. Making of the Project video under coordination of Mr. Miguel 3. Procedure of transportation of forklift 4. Explanation meetings, 8 times, under coordination of Mr. Yamada
37	Jul/23/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez 6) Ing. Ever Cabrera	Project Manger/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Schedule of dispatch of SE (OIML R76-1) in Sep/Oct 2. Lecture on model approbation between Sep/24 & 26 3. Procedure of provision of 3 PCs by INTN 4. Presentation of 1t weights problem to JICA PY on Jul/09 5. Confirmation of Houston as producer of the Project video
38	Ago/06/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Lic. Arnaldo Florencio 4) Ing. Ricardo Ramirez 5) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Confirmation of dispatch schedule of SE from Aug/30 to Oct/08 2. Schedule of transportation of forklift 3. Visit of Mr. Enis (Micronal) for verification of 1t weights problem on Jul/30
39	Ago/20/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Miguel Garcia 3) Lic. Arnaldo Florencio 4) Ing. Ricardo Ramirez 5) Ing. Ever Cabrera	Project Manger/Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Asistent	1. Confirmation of dispatch of SE, Mr. Izawa form Aug/30 to Oct/08 2. Information of 1t weights problem 3. OS installed in 3 PCs 4. Shooting on the Video on Ms. Lilian and Mr. Aoki on Aug/26-27 5. Decision of lecture on model approbation on Set/24
40	Set/03/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez	Project Manger/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Masaaki Izawa 6) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Expert C.P. Asistent	1. Introduction of Mr. Izawa 2. Schedule of shooting on the video 3. Scheduling of exchange of technologies with LATU in Nov/Dec 4. Scheduling of exchange of technologies with INMETRO in Mar 4. 1st explanation meeting at UIP
41	Set/16/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez 6) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Business trip of Ms. Zully on Sep/20-Oct/04 to Germany 2. Participation of Mr. Ever in PTB seminar in Venezuela 3. Schedule of shooting on the video 3. 1st explanation meeting on Sep/18 at UIP
40	Oct/07/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez	Project Manger/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Masaaki Izawa 6) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Expert C.P. Asistent	1. Information about 1t weights problem 2. Visit of Mr. Ozaki, JOCV, on Oct for verification of LAN problem 3. Schedule of explanation meetings on Oct/8-11 4. Schedule of explanation meeting on Oct/18 in Asuncion 5. Installation of iron door in front of main door of the Project office

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# ANNEX 15 List of Joint Liaison Meeting

Feb/24/2003

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No.	Date	List of Attendance				Main Issues Discussed
		Paraguayan		Japanese		
41	Oct/22/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez 6) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Information about Final Evaluation 2. Rejection of vehicle for verification service by JICA 3. Explanation meeting on Nov/13 at INTN
42	Nov/05/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Miguel Garcia 4) Lic. Arnaldo Florencio 5) Ing. Ricardo Ramirez 6) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advlsor Project Coordinator Expert Expert Asistent	1. Information about Final Evaluation 2. Vacation schedule of Japanese experts 3. Report about LAN to be made by Mr. Ozaki, JOCV 4. Preview of video at INTN
43	Nov/19/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Lic. Arnaldo Florencio 4) Ing. Ricardo Ramirez 5) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Information about Final Evaluation 2. Process of custom clearance of forklift 3. Report about LAN to be made by Mr. Ozaki, JOCV 4. Explanation meeting on Nov/27 at Luque prefecture
44	Nov/29/2002 Int.: Matsumoto	1) Ing. Shiqueru Yano 2) Lic. Arnaldo Florencio 3) Ing. Ricardo Ramirez	Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Tasks and program of Final Evaluation 2. Deliver of forklift 3. Report about LAN to be made by Mr. Ozaki, JOCV 4. Explanation meeting on Dec/17 and 18
45	Dec/16/2002 Int.: Matsumoto	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Lic. Arnaldo Florencio 4) Ing. Ricardo Ramirez 5) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Sadanobu Ueno 2) Shozo Yano 3) Toshio Yamada 4) Andrés Kikuchi	Project Coordinator Expert Expert Asistent	1. Tasks for the Final Evaluation 2. Installation of forklift on Dic/05 3. Report about LAN to be presented on Dec/17 to INTN 4. Making of pamphlet for scale entrepreneurs
46	Jan/14/2003 Int.: Muraoka	1) Ing. Shiqueru Yano 2) Lic. Arnaldo Florencio 3) Ing. Ricardo Ramirez	Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Confirmation of unfinished documents for evaluation 2. Update of TCP/ATCP and monitoring & evaluation sheet 3. Procedures of construction of garage for measuring mobile by JICA 4. Confirmation about the Project activities such as 8th explanation meeting, making of pamphlet, exchange of technologies, etc.
47	Jan/23/2003 Int.: Muraoka	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Ricardo Ramirez 4) Ing. Ever Cabrera	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada	Chief Advisor Project Coordinator Expert Expert	1. Information of dispatch of study team for final evaluation 2. Appointment of meetings with the study team 3. Information of contract of construction of garage 4. Confirmation about the Project activities such as 8th explanation meeting, making of pamphlet, exchange of technologies, etc.
48	Feb/04/2003 Int.: Muraoka	1) Lic. Zully Milessi 2) Ing. Shiqueru Yano 3) Ing. Ricardo Ramirez 4) Ing. Ever Cabrera 5) Lic. Arnaldo Florencio	Project Manager/Coordinator Technical Coordinator Technical C/P Technical C/P Technical C/P	1) Shinya Aoki 2) Sadanobu Ueno 3) Shozo Yano 4) Toshio Yamada 5) Andrés Kikuchi	Chief Advisor Project Coordinator Expert Expert Asistent	1. Questionnaire for the interview by the JP study team member 2. Verification of appointment of meetings with the study team 3. Information about the pre-evaluation of the Project 4. Information about F2 class 1t weights problem 5. Confirmation about the Project activities such as making of pamphlet, exchange of technologies with INMETRO, etc.

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# ANNEX 16 List of Publicity for the Project

Feb/24/2003

No.	Activity		Type	Contents	Date	Remarks
	0-5	3-1				
1	+		Printing	Leaflet for introducing the Project	Feb/2001	2000 copies A4 size folded in three
2	+		Newspaper	Report by the newspaper "Tiempos del Mundo"	Apr/26/2001	
3	+		Newspaper	Report by the newspaper "ABC"	May/01/2001	
4	+		Event	Opening ceremony of the national metrology laboratories	May/08/2001	Attended by the President of Paraguay
5	+		Newspaper	Report by the newspaper "Ultima Hora"	May/08/2001	
6	+		TV	Live broadcasting from the laboratory by the TV channel "Telefuturo"	May/08/2001	
7	+		TV	Broadcasting of the opening ceremony by the TV "Cerro Corá"	May/08/2001	
8	+		Newspaper	Report by the newspaper "La Nacion"	May/09/2001	
9	+		Newspaper	Report by the newspaper "Noticias"	May/09/2001	
10	+		Newspaper	Report by the newspaper "Tiempos del Mundo"	May/10/2001	
11	+		Newspaper	Report by the newspaper "La Nacion"	May/13/2001	
12		+	Printing	Pamphlet for enlightening the users of weighing instruments	Mar/2002	2000 copies A4 size 11 pages
13	+		Magazine	INTN magazine 2001-2002	Aug/2002	Presentation of the Project in 3 pages
14		+	Internet	PR of the seminar on Approbation of Model in WEB	Sep/2002	
15	+	+	Newspaper	Report by the newspaper "Ultima Hora"	Sep/19/2002	
16		+	Internet	PR of the seminar on ISO9001 in WEB	Oct/2002	
17	+		Printing	Poster designed "Concept of the Project"	Oct/2002	1000 copies A4 size, 100 copies A3 size
18	+	+	Video/CD	Project INTN - JICA	Oct/2002	21 min. of complete version / 8 min. of reduction version / 2 types of 40 sec. of commercial version
19	+		Newspaper	Interview to the Project Leader by the newspaper "Nikkei Journal"	Oct/15/2002	
20	+	+	Radio	Interview to the Project members by the AM Radio Nanduti	Nov/11/2002	45 minutes on air
21	+	+	Newspaper	Report by the newspaper "Ultima Hora"	Nov/09/2002	
22		+	Newspaper	Advertisement of the 5th explanation meeting in "ABC"	Nov/13/2002	
23		+	Newspaper	Advertisement of the 6th explanation meeting in "ABC"	Nov/27/2002	
24		+	TV	Interview to C/P Ever by "Channel 8" in Ciudad del Este	Dec/03/2002	15 minutes on air
25		+	Radio	Interview to C/P Ever by "Radio Parque" in Ciudad del Este	Dec/03/2002	30 minutes on air
26		+	Radio	Interview to C/P Ever by "Radio Itapirú" in Ciudad del Este	Dec/03/2002	1 hour on air
27		+	Radio	Interview to C/P Ever by "Radio Magnífica" in Ciudad del Este	Dec/04/2002	1 hour on air
28	+	+	Newspaper	Report by the newspaper "ABC"	Dec/11/2002	
29		+	Radio	Interview to the Project members by "Radio Magnífica" in Ciudad del Este	Dec/17/2002	30 minutes on air
30		+	Radio	Interview to the Project members by "Radio Parque" in Ciudad del Este	Dec/17/2002	30 minutes on air
31		+	Radio	Interview to the Project members by "Radio Tierra" in Ciudad del Este	Dec/17/2002	20 minutes on air
32		+	TV/Radio	Interview to the Project members by "TV & Radio FM del Sur" in Encarnación	Dec/18/2002	7 minutes on air
33		+	TV/Radio	Interview to the Project members by "TV & Radio Paraná" in Encarnación	Dec/18/2002	40 minutes on air
34		+	TV	Broadcasting of the explanation meeting by the "Channel 4" in Encarnación	Dec/18/2002	

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## ANNEX 17 List of Supplier

Products	Name of Supplier (Dealer / Distributor / Constructor)	Person in Charge	Representing Manufacturer	Address	Telephone Fax Cellular Phone	E-Mail
Laboratory	Constructor: Jiménez Gaona y Lima S.A.	Manager: Mr. Santiago Gómez Grassi		Avda. Artigas 1777 - Asunción - PARAGUAY	T:(021)210-684 F:(021)212-457	
Laboratory	Supervisor: Arq. Silvio Carlos María Lombardo y Asociados	Mr. Silvio Carlos María Lombardo		Capellanes del Chaco 1077 c/Verdi - Asunción - PARAGUAY	T/F:(021)294-487 C:0981-409-985	
UPS	Consultronic	Ms. Marcola Siegehen	Mertlin Gerin (France)	EE.UU. 936 e/Manuel Domínguez y Tte. Fariña - Asunción - PARAGUAY	T:(021)492-818 F:(021)440-206	consul@consultronic.com
Weights, Mass Comparators, Volume Measuring Instruments, Mini-compressor, Anti-vibration Tabel, Preservation Box, etc.	Micronal S.A.	General Manager: Mr. Enis Okurdil	Mettler Toledo (Switzerland), Shultz (Brazil), etc.	15 de Agosto 818 c/Humaitá - P.O.Box 2630 - Asunción - PARAGUAY	T:(021)497-871 F:(021)442-772 C:0971-208-641	seo@quanta.com.py
Weights	LABCO Laboratorio Costanzo E.I.R.L.	Manager: Mr. Victor Costanzo	Sartorius, Murakami Koki (Japan)	Presidente Franco 831 - P.O.Box 1735 - Asunción - PARAGUAY	T:(021)492-280 F:(021)492-279	labco@pta.net.py
Track for Measuring Mobile	RIEDER & CIA. S.A.C.I.	Sales: Mr. Osvaldo R. Velásquez B.	VOLVO (Brazil)	Avda. Artigas 1945 - Asunción - PARAGUAY	T:(021)214-114 F:(021)290-750	
Crane for Measuring Mobile	HB Hidraulica del Brasil S.A.	President: Ms. Ivana Katty Kubitz	Palfinger (Austria)	Ruta San Lorenzo - Luque km 4.2 - PARAGUAY	T:(021)648-990 F:(021)648-994	hb@conexion.com.py
Electric Forklift	AUTOMAQ	Sales: Mr. Blás Ávalos	Clark (USA)	Avda. Mcal. López y Avda. Santa Teresa - Asunción - PARAGUAY	T:(021)671-111 F:(021)671-113	
Copy Machine	Officentro S.A.	Sales: Mr. Oscar G. Román	SHARP	Olivá 550 - P.O.Box 853 - Asunción - PARAGUAY	T:(021)497-971 F:(021)445-494 C:0971-208-090	officentro@uninet.com.py
Diesel Forklift	ELHIM S.R.L.	President: Mr. Masatoshi Umeyama	TCM	R.1.6 Boquerón 1559 c/Serafina Dávalos - P.O.Box 2280 - Asunción - PARAGUAY	T/F:(021)603-214 C:0981-430-889	elhim@conexion.com.py
Note Type Computer	Big Manzana	Chief of Support: Ms. Marcela Bartetta	Macintosh	Avda. Mcal. Lépez 1735 - Asunción - PARAGUAY	T:(021)212-062 F:(021)222-580	bigmanzana@mac.com
Tranceiver	Aquarius S.A.		Kenwood	Avda. Graf. Santos e/Avda. Fdo. De la Mora - P.O.Box 2503 - Asunción - PARAGUAY	T:(021)214-398 F:(021)214-401	aquarius@pta.net.py
Garage	Constructor: Cons. Metal	Mr. Valerio Barrios		Soldado R. Quintana c/Ruta Transchaco km 13 - Asunción - PARAGUAY	T:(021)297-119 C:0961-658-649	



# ANNEX 18-1 Evaluation Sheet for Technology Transfer of the project

Version 5  
Feb/24/2003

Field: Mass Standard

Subject	Current Status				Current Level Target Level	Measures to Monitor	Plan			Actual Products *Refer to the ANNEX **
	Counterpart (Term of C/P Training in Japan)	Expert (Term)	Input				Item to be achieved (Target year)	Mode of Technology Transfer	Necessary Equipment	
			Main Equipment							
		By Japanese side		By Paraguayan side						
1 Set up & Maintenance	1 Mr. Shigueru Yano (Jan/17/2001 ~ Mar/17/2001)	1 Mr. Shozo Yano (Sep/07/2000 ~ Jun/04/2003)	1 Weights 1) E2: 20kg~1mg (1pair) 2) F1: 20kg~1mg (2sets) 3) F2: 20kg~1mg (1set)	1 Personal Computers 2 Desks and Chairs	2 3	b c	b (May/2003) c (May/2003)	Long-term Expert	1 Technical Texts 2 Traceability Chart 3 Calibration Capability List 4 Observation Sheets 5 Calculation Sheets 6 Procedures 7 Certificates 8 Technical Data 9 Instruction Manuals	
2 Direct Comparison Technique	2 Mr. Ricardo Ramirez 3 Mr. Arnaldo Florencio (Sep/25/2001 ~ Dec/04/2001)		2 Mass Comparators 1) 20kg/2mg 2) 10kg/0.01mg with autohandler 3) 100g/0.001mg with autohandler 4) 5g/0.1µg	3 Desiccators 4 Others	3 3					
3 Equal Amount Comparison Technique	(4) Mr. Miguel Garcia (Jan/17/2001 ~ Mar/17/2001)		3 Air Density Measuring Meters 1) Thermometer (0~50°C/0.01°C) 2) Hygrometer (0~99.9%/0.1%) 3) Barometer (870~1090hPa)		1 3	a b c	a (May/2003) b (May/2003) c (May/2003)			
4 Sub-Multiple Comparison Technique	(5) Mr. Eber Cabrera * Mr. Silvio Zarza (Sep/25/2001 ~ Dec/04/2001)		4 Related Instruments 1) Volume Determinators 2) µ-Meter 3) Computers 4) Preservation Boxes		1 3	a b c	a (May/2003) b (May/2003) c (May/2003)			
5 Multiple Comparison Technique	Resigned in Feb/2002				1 3	a b c	a (May/2003) b (May/2003) c (May/2003)			

Note: Number in parentheses means C/P who doesn't cover all subjects.

<Level> 3: Operable without expert's advice  
2: Operable with expert's advice  
1: Implemented partially on going  
0: Yet to be implemented

<Measures to Monitor> a: Measurement data  
b: Calibration data  
c: Documents

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# ANNEX 18-2 Evaluation Sheet for Technology Transfer of the Project

Version 5  
Feb/24/2003

## Field: Verification and Inspection

Subject	Current Status				Current Level / Target Level	Measures to Monitor	Plan			Actual Products *Refer to the ANNEX **	
	Counterpart (Term of C/P Training in Japan)	Expert (Term)	Input				Item to be achieved (Target year)	Mode of Technology Transfer	Necessary Equipment		
			Main Equipment								
		By Japanese side		By Paraguayan side							
1 Knowledge of OIML- R76-1 (except Pattern Approval)	(1) Mr. Shigueru Yano (Jan/17/2001 ~ Mar/17/2001)	1 Mr. Masakuni Ishii (Jun/05/2000 ~ Jun/04/2002)	1 Weights 1) F1: 1t (1pc) 2) F2: 1t (40pcs) 3) F2: 500kg (1pc) 4) F2: 200kg (1pc) 5) F2: 100kg (10pcs) 6) F2: 20kg (50pcs) 7) F2: 20kg set (3sets)		1 Personal Computers  2 Desks and Chairs		2 / 3	a d	a (May/2003) d (May/2003)	Long-term Expert	1 Technical Texts
2 Inspection Technique of Electronic Weighing Instrument	2 Mr. Miguel Garcia (Jan/17/2001 ~ Mar/17/2001)	2 Mr. Keizaburo Uchikawa (Jul/25/2001 ~ Sep/02/2001)					3 / 3				2 Observation Sheet
3 Inspection Technique of Mechanical Weighing Instrument	3 Mr. Eber Cabrera  (4) Mr. Ricardo Ramirez	3 Mr. Toshio Yamada (May/08/2002 ~ Jun/04/2003)	2 Mass Comparators 1) 1.2t ~ 1g 2) 600kg ~ 100mg 3) 52kg ~ 10mg 4) 5kg ~ 1mg 5) 1kg ~ 0.1mg 6) 100g ~ 0.001mg 7) 5g ~ 0.0001mg				3 / 3				3 Procedures
4 Knowledge of OIML-R111	(5) Mr. Arnaldo Florencio (Sep/25/2001 ~ Dec/04/2001)	4 Mr. Masaaki Izawa (Aug/29/2002 ~ Oct/10/2002)	3 Measuring Mobil with Crane				2 / 3	a d	a (May/2003) d (May/2003)		4 Certificates
5 Inspection Technique of Weight			4 Electric Forklift  5 Diesel Forklift				2 / 3	b c d	b (May/2003) c (May/2003) d (May/2003)		5 Technical Data
										6 Others	

Note: Number in parentheses means C/P who doesn't cover all subjects.

<Level> 3: Operatable without expert's advice  
2: Operatable with expert's advise  
1: Implemented partially on going  
0: Yet to be implemented

<Measures to Monitor> a: Oral Examination  
b: Actual technique  
c: Measurement data  
d: Documents

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