



**INDONESIA: EARLY CHILDHOOD  
DEVELOPMENT PROJECT**

**CONSTRUCTION OF KINDERGARTENS &  
BKB/POSYANDU CENTRES**

**IMPLEMENTATION SPECIALIST'S REPORT  
MAY 2002**

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## **A. INTRODUCTION**

### **1. General**

1.1 The Implementation Specialist visited Indonesia from May 4<sup>th</sup> to May 12<sup>th</sup> 2002 to review the progress of the rehabilitation of existing and the construction of new kindergartens and BKB/Posyandu Posts through community participation in Bali and South Sulawesi Provinces under the World Bank Basic Early Childhood Development Project.

### **2. Terms of Reference**

2.1 The Implementation Specialist's terms of reference for the mission were to:

2.1.1 Assess the status of the facilities constructed by the Project in Bali and South Sulawesi and specifically:

- a) Meet with the CPMU Project Management team to discuss the supervision plan.
- b) Meet with all necessary Provincial Project Implementation Unit (PPIU) officials and construction management consultants to obtain information about the establishment of the facilities. Based on this information, decisions will be made as to which sites will be visited.
- c) Review all necessary legal documents (particularly land certificates and contracts), technical reports and monitoring reports produced by CPMU, PPIUs and construction management consultants.
- d) Visit selected sites and meet with the community, teachers and parents. During the visits he was to:
  - Assess the condition of construction (buildings and site works) compared with the construction design, site characteristics and terms of contract;
  - Identify parts of the buildings and sites that require repairing and/or improvement;
  - Assess the water and toilet facilities;
  - Assess the infrastructure (access road, water supply, drainage, verandas, landscaping between buildings including playing fields, fencing, electricity connection and any additional construction);
  - Obtain supporting data such as the status of registration, number of students and teachers, inputs they have been receiving from the Project, government and community.
- e) Assess the performance of the PPMU's construction management consultants.

- f) Following the visits to the schools, he was to discuss his findings with the PPIU staff and consultants in the two provinces and then present his findings to the CPCU Project Manager and the World Bank.

### 3. Meetings

- 3.1 Meetings were held with CPCU staff in Jakarta and PPIU staff in the two provinces visited and with community members, parents and teachers.

### 4. Visits

- 4.1 Kindergartens and BKB/Posyandu Posts were visited in Bali and South Sulawesi Provinces.

## **B. SUMMARY OF REPORT**

### 1. Issues Raised by Site Visits

- 1.1 Kindergarten and BKB/Posyandu Post Design: The design of the kindergartens was based on large 'group' rooms to be used by up to 32 children (see Implementation Specialist's report of May 1999 for details). The group room was designed to have large tables in the centre for group and individual activities and 4 activity 'corners': one for reading, one for building, one for role playing and one for drawing and painting. It was also intended to construct at least two sizes of kindergarten, one with one group room and one with two group rooms depending on the number of children in any particular location.

Unfortunately this concept, which was agreed with DIKMAS and DIKDAS at the time, does not seem to have been followed through. The furniture that has been ordered for instance consists only of 25 sets of single tables and chairs. There are no work tables, shelving or storage units or furniture for group work or for the activity corners and there are no pin-boards or display boards. At some kindergartens the large group room itself has been abandoned in favour of two smaller classrooms and it is not clear why this has been done.

It was also noted that only the single group room type kindergarten has been built at all locations no matter what the size of the kindergarten age population is in the community. In many of the kindergartens however, the group room has been divided into two spaces using movable screens.

The design of the kindergarten has implications for the training of teachers and the use of the buildings. For instance, are the teachers who are at present undergoing training, being trained in the use of the group room as originally conceived or in more traditional methods? Whatever the training, the limited amount and type of furniture being provided will severely restrict the use of the kindergartens and group rooms. In many kindergartens visited, the maximum size of groups was to be 25, presumably based on the amount of furniture available.

Another basic design concept was that the kindergartens and BKB/Posyandu Posts were to be placed on the same site in order to bring together the two different functions on one site and to integrate the development of both the health and education of young children. This has largely happened in South Sulawesi and mothers are bring their young children to the BKBs for health checks and will then bring their older children to the kindergartens. In Bali however for a variety of reasons this has not happened on most sites.

1.2 Detail Design, Construction and Maintenance: The buildings as originally designed were supposed to be simple and economic to construct and economic to maintain. Unfortunately, the construction consultants have introduced changes to the detail design which have increased construction costs and will probably increase maintenance costs.

Many of these changes (such as the use of white glazed tiles to the floors of rooms and verandas and the introduction of ceilings to the verandas and the underside of the roof on the other sides of buildings) have probably been introduced because of pressure from the communities. However, it was the responsibility of the consultants to advise the communities as to the effects of these changes. For instance the use of glazed tiles has increased costs and the use of glazed tiles on verandas where they can get wet could be hazardous to children and teachers. The introduction of external ceilings has increased both the initial cost of the buildings and more importantly the long-term maintenance costs. If the communities insisted on extras over the basic designs, they should have been asked to provide them.

The specification of the corrugated steel roof sheets should be checked. The sheets used at many of the sites seem to be only .2mm thick and these will have a very short life. Many of them have been painted but most appear only to have had one coat of paint and do not appear to have been primed with the correct primer.

The position of the double doors to the group room should be amended in order that they can close back against the veranda walls.

The provision of electrical installations in all kindergartens should also be re-examined. If kindergartens are only to be used for a few hours each morning there would seem to be little reason to spend a lot of money on an electrical installation and there is also the question of will the communities be able to pay for any electricity used. It should also be noted that most of the lighting systems seen will provide very inadequate levels of lighting anyway. The money would therefore have been better invested in additional facilities. If the facilities are to be used for other activities in the evenings then the provision of lights in the main group room may be justified and the possibility of solar power should be considered.

More attention should have been given to the provision of water and toilets by the consultants. The water and sanitation facilities should have been properly designed and priced on all sites. Many sites for instance do not yet have a reliable water supply and on some sites septic tanks and soakaways have been constructed very close to wells which they could contaminate.

1.3 Community Participation, Socialisation and Training: Some of the crucial elements necessary for the overall success of the project, community development and developing a sense of community ownership of the facilities, seem largely to have been missing. Any socialisation that has taken place has been the responsibility of the PPIUs and the construction consultants and took place at the very start of the project. No community development specialists were involved at either the central, provincial or district levels.

In retrospect, much more training should have been given to communities both in their responsibilities during the construction of the buildings (in clearing sites, back-filling, etc) and in their responsibilities for running and managing the buildings at the end of the project period and in providing operating costs for payment of teachers, materials and maintenance. Some communities made contributions mainly in labour for clearing sites and back-filling but many communities made no contribution at all.

Training should also have been given both in raising funds for covering the operating costs and in maintaining the buildings themselves. The construction consultants are responsible for preparing maintenance handbooks for the buildings and for training the communities in maintenance but they are not community development specialists and it is not known what sort of training will be given or how effective it will be.

1.4 Provision of Facilities: As stated above, only the single work room kindergarten has been built and there seems to have been no attempt to match the size of the kindergartens to the population of kindergarten age children in particular locations. At more than one location visited there seemed to be a definite need for more accommodation.

1.5 Budgets: The budgets for both the kindergartens and the BKB Posts (though these are not so critical) have been standardised and there has been no attempt to match the budget for any of the kindergartens to their specific circumstances. The costs for the buildings, water supplies and sanitation are all the same even though they must vary from site to site. Site conditions vary greatly, the cost of materials varies according to location, transport costs, etc, the water supply situations vary at different sites and the budgets for the different sites should have taken all these factors into account.

Some of the kindergartens that were to be renovated were actually re-built completely but they still only received the reduced budget for renovation.

No funds were put into the budgets for fencing sites. However some kindergartens are close to roads or streams and for the safety of the children should be fenced.

The cost of the facilities varies greatly and while there are reasons for some of these variations such as the location of the site, difficulties in getting materials, etc, some of the variations and particularly the high costs at some sites are very difficult to explain.

1.6 Construction Consultants: The contracts and costings prepared for the LKMDs do not appear to be comprehensive and the consultants do not appear to have prepared site-specific schedules of materials for each site as was intended. This would have enabled them to prepare a detailed cost for each site for both the building(s) and the site works and to have included them in the contracts. In fact in Bali the consultants do not appear to have produced detailed drawings of each site showing the position of buildings, levels, site works, etc; from what was seen, only very sketchy site layouts were produced. In South Sulawesi the consultants do appear to have produced better site drawings.

The numbers of construction supervisors in all provinces seem to have been too low. If construction is to be carried out by communities a great deal of supervision and management will be required from the consultants both to replace that normally given by the contractor and also because it is likely that the amount of skilled labour available locally in remote rural locations is likely to be low. Contractors working in these locations would probably bring in their own skilled labour and ensure that there was sufficient supervision and a community-based project must do likewise. The most isolated sites should have had more supervision and management.

Some training of the consultants (especially if they had not been involved in community-based projects before) in the objectives of the project and in the management of community-based construction projects would have been useful. These sorts of projects are quite different from those where contractors are used but the consultants seem to have treated the process as being similar. Communities require simple drawings and documents and much more leadership, supervision and assistance.

1.7 Project Planning: In retrospect, more time should have been spent at the beginning of the project in project preparation and planning. The first year of the project should have been used for community development work in the selected villages by specialist consultants, for the selection of construction consultants, for site selection and site surveys and the preparation by the construction consultants of site-specific drawings and schedules of materials and separate budgets for every site. Construction of the first set of buildings could then have started in the second year while the preparation work for the third year took place concurrently.

This would have ensured that communities understood better what their responsibilities were both for the construction and the operation of the facilities, facilities more appropriate to their location could have been provided, more accurate budgets for each site could have been produced and possibly more facilities constructed. It would also have helped to reduce the problems caused by the late issue of the DIP and the difficulties of obtaining the actual funds.

## 2. Recommendations

2.1 Provision of Facilities: If there are further construction stages or in future projects, the size of the kindergartens should vary according to the population of kindergarten-age children in the community.

Kindergartens and BKB/Posyandu Posts should if at all possible be built on the same site in order to integrate their functions as much as possible.

If funding is available this year for further construction, if only on a pilot basis, consideration should be given to the renovation of existing or the construction of some new buildings to provide multi-purpose facilities to house both a kindergarten and a BKB/Posyandu Post with both facilities sharing some accommodation.

- 2.2 Furniture: Furniture should be supplied to the kindergartens in line with the original intentions for the use of the group rooms.
- 2.3 Construction: The detail design and construction of new buildings should be kept as simple as possible to reduce both construction and maintenance costs.
- 2.4 Electrical Installations: Electrical installations should only be provided if they can be justified by other uses of the building. The use of solar power in these cases should be investigated.
- 2.5 Water and Toilets: More attention should be given to the design and provision of drinking water and toilets. Wells and septic tanks/soakaways should be kept a minimum of 15 metres apart (preferably 30 metres).
- 2.6 Community Development: More emphasis should be given to community development and the role and responsibilities of communities. Community development consultants should be employed assist with this.
- 2.7 Construction Consultants: Training should be given to the construction consultants in the objectives of the project and they should work closely with the community development consultants. The construction supervisors should have the experience and authority to enable them to lead the communities in making responsible decisions.

Sufficient numbers of construction supervisors should be provided to give adequate supervision and management assistance to the communities.

- 2.8 Budgets: Budgets should be established for each site depending on location, size of building, site conditions, etc and should include actual site development costs, water supplies, toilets, fences, etc.

The Project Construction Management Consultant should carry out a detailed cost analysis of a sample of sites in each province to establish the actual cost of materials and labour and whether the construction budgets were realistic. He should also investigate why the buildings on some sites cost so much more (if community contributions are included) than on others.

- 2.9 Maintenance: More emphasis should be given to the maintenance of facilities. Training should be given to communities in fund raising to cover both operational



and maintenance costs and in maintenance of the facilities by the community development and construction consultants.

2.10 Project Preparation: Adequate time should be allowed for project preparation and planning at the beginning and all stages of the project.



Plate 1: TK Pusat Padu Bulaengta, Gantarang, Kecamatan Tinggi Mancang, Gowa District, South Sulawesi Province

## **ANNEX 1: REPORT ON VISIT TO BALI PROVINCE**

### **1. General**

- 1.1 Bali Province was visited in the company of the CPMU Construction Adviser from May 5<sup>th</sup> to May 9<sup>th</sup> 2002.
- 1.2 Meetings were held with PPIU Project Manager and staff before and after visits were made to two of the districts where renovation and construction work is in progress.
- 1.3 Visits were made to sites in Kotamadya Denpasar and Bulaleng Districts. Details of the site visits are given below.
- 1.4 All new kindergartens are built to a standard single-storey design. Only the Type 1 design is being used in Bali Province and that has one large classroom (12 x 7 metres), a kitchen and store (3 x 7 metres), a teacher's office and sick room (3 x 7 metres), a security room (3 x 7 metres) and toilets (3 x 7 metres). In several of the kindergartens seen however, this design had been modified for some reason to provide two smaller classrooms rather than one large one.
- 1.5 All buildings are constructed of RC frames with rendered brick walls, RC or timber veranda columns, clay tiles or galvanised corrugated steel roof sheets on timber roof trusses and purlins, timber glazed top-hung windows with open louvres over and hardwood panelled doors. Floors to classrooms and verandas were to be finished with concrete (abu-abu) tiles but in many cases glazed ceramic tiles have been substituted. It was not intended in the original design that the external soffits to the verandas and around the buildings should be sealed but in many cases this has been done.
- 1.6 Existing kindergartens were also renovated and in some cases this renovation actually consisted of the demolition of the existing building and the construction of a new building. However, no additional budget was provided in most of these cases.
- 1.7 No new BKB/Posyandu Posts were constructed in Bali under the project but some were renovated or extended.
- 1.8 The construction contracts signed by the LKMD contained costs for demolition of existing buildings where relevant and for foundations, walls, floor and roof but no ceilings, partitions, toilets or electrics.
- 1.9 Rp120 million was budgeted for new Type 1 kindergartens and Rp96 million for renovating existing kindergartens. The renovation of BKB/Posyandu Posts was budgeted at Rp3 million and the extension at a cost of Rp5 million or Rp7.68 million. All these budgets included 3% for administration costs. In some cases, communities donated money and materials in order to increase the budget for the buildings.

1.10 Teachers are at present being trained for the kindergartens in Surabaya and most of the new kindergartens will open in June/July when the teachers return from training. All teachers were recruited from the villages where they will teach.

1.11 It does not appear that detailed site layouts showing the positions of the buildings on the sites, levels, etc were produced by the civil works consultants. The only one seen was very sketchy.

## 2. Bulaleng District Site Visits

2.1 TK Eka Dharma, Jl. Pahlawan 8, Singaraja: This kindergarten is situated on a very small urban site in Singaraja City. It is classed as a renovation but the old building was demolished and a completely new building was constructed. The budget was however only Rp96 million. The accommodation consists of the standard large classroom and an office that is used as a classroom. There are also two toilets, a small kitchen at the rear of the building and a covered front entrance. The kindergarten has an electricity connection and is connected to the town water supply. The kindergarten is clean and nicely kept.



Plate 2: TK Eka Dharma, Jl. Pahlawan 8, Singaraja

There are 83 children in three classes (the large classroom has dividers and is used as two classrooms) and 5 teachers including the principal. The kindergarten has furniture and equipment from the old building with some new external play equipment. There was no problem with the site as it was an existing kindergarten.



The building was constructed during 2001 and took 5 months to build using local labour with a local supervisor. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings have been sealed with ply panels. The large classroom has 4No 600mm fluorescent light fittings. The building is on the whole very well built, painted and finished but there are a few cracks in the walls and the panels in the hardwood doors have shrunk badly in most cases and should be replaced using seasoned timber. The ply panels to some ceilings also require re-fixing (they were nailed too close to the edges of the panels). The windows and window frames are nicely made and the toilets are neatly tiled.

The total area including walls but not verandas is 120m<sup>2</sup> and the total cost without the administration fee was Rp93,129,000 giving a cost per square metre of Rp776,075. This cost did not include any site works apart from the septic tank and soakaway. There was an existing wall around the site with a gate.

2.2 TK Bina Putra, Desa Bakti Srage, Kecamatan Bulaleng: This kindergarten is situated on a very small site in a rural village. The school has a small play space in front, backs directly on to roads behind and to one side and has a temple on the other side.



Plate 3: TK Bina Putra, Desa Bakti Srage, Kecamatan Bulaleng

Again it is classed as a renovation but the old building was demolished and a completely new building was constructed. The budget was again only Rp96

million. The building is 'L'-shaped and the accommodation consists of the standard large classroom, an office and a toilet. The kindergarten has an electricity connection and is connected to the town water supply. The kindergarten is clean and nicely kept.

There are 36 children in one class and 2 teachers including the principal. The kindergarten has furniture and equipment from the old building. There was no problem with the site as it was an existing kindergarten.

The building was finished in December 2001 and took 4 months to build using local labour with a local supervisor. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings have been sealed with ply panels. The roof over the veranda (which is narrow and cantilevered) is very complicated. The building is well built, painted and finished. The windows and doors are nicely made and the toilet is neatly tiled. The only visible problem was the verge detail to the roof which is finished with plastic sheet that will not last.

The total area including walls but not verandas is 107m<sup>2</sup> and the total cost without the administration fee was Rp93,129,000 giving a cost per square metre of Rp807,364. This cost did not include any site works apart from the septic tank and soakaway. There was an existing wall to the front of the site.

- 2.3 TK Desa Panji Anom, Kecamatan Suka Sada: This kindergarten is situated on a small rural site on a road at the edge of a village with rice paddies behind. This is a new site and a new kindergarten and the budget was Rp120 million. The accommodation consists of the standard large classroom, an office, a kitchen and store, a security room and toilets. The toilets have been reduced in number from five to two. The kindergarten has an electricity connection and is connected to the village water supply.

The kindergarten has no furniture yet though the outside play equipment has been delivered but not fixed. The kindergarten should start operation in June 2002 and will have between 25/50 children probably in two shifts and two teachers.

Construction of the buildings started in March and was finished in August 2001 using local labour with a local supervisor. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings have been sealed with ply panels. The veranda has RC columns and the roof is of corrugated steel sheets. The large classroom has 8No tungsten light fittings. The building is on the whole well built but the painting is not very good and another coat of paint is required to all surfaces. The ceiling panels are not very well fixed (they are nailed too close to the edge), there are a few cracks to the walls and a few of the door panels have shrunk although the rest of the joinery is quite good. No taps have been fitted yet to the water supplies presumably in order that they are not stolen. The building has one metre wide paving and a storm drain all round. There is no wall around the site as the budget was not sufficient. It is hoped that funds for the wall will be found this year.

The total area including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,505,000 giving a cost per square metre of Rp673,439. This cost did not include any site works apart from the external paving, storm drains and septic tank and soakaway.



Plate 4: TK Desa Panji Anom, Kecamatan Suka Sada

**2.4 TK Bung Kulan, Kecamatan Sawon:** This kindergarten is situated on part of a large site in the village site surrounded by a high wall. A wall will eventually be built dividing the kindergarten site off from the main site. This is a new site and a new kindergarten and the budget was Rp120 million. The accommodation consists of the standard large classroom, an office, a security room, a kitchen and store and toilets. The kindergarten has an electricity connection and is connected to the town water supply.

The kindergarten has no furniture yet though the outside play equipment has been delivered but not fixed. The kindergarten is in operation in other accommodation and has 25 children and two teachers one of whom is the principal. It will probably have 50 children this year and will move when the furniture is delivered.

The building was started in January and finished in July 2001 using local labour with a local supervisor. There were 15 workers; 10 unskilled and 5 skilled. The LKMD ordered the materials assisted by the Construction Supervisor (CS) who visited the site 2/3 times a week and was very useful. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings have



been sealed with ply panels. The veranda has RC columns and the roof is of corrugated steel sheets which have been painted (not very well; are the roof sheets and the paint to the correct specifications?). The large classroom has 8 tungsten light fittings. The building is on the whole well built but there are some cracks to walls, some door panels are shrinking and the painting to the doors is not very good. The tiling to the floors is also a little uneven. One major problem is that a section of drain at the rear of the building has collapsed and the paving has been undermined. This has probably been caused by the soakaway subsiding and should be rectified as soon as possible. The building has one metre wide paving and a storm drain all round. There is no wall at the front of the site as the budget was not sufficient. It is hoped that funds for the wall will be found this year.



Plate 5: TK Bung Kulan, Kecamatan Sawon

The total area including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,505,000 giving a cost per square metre of Rp673,439. This cost did not include any site works apart from the external paving, storm drains, septic tank and soakaway.

2.5 TK Desa Bila, Kecamatan Kubutambahan: This kindergarten is situated on a small site in the village next to the village office on a main road. Part of the village office building is used as a BKB/Posyandu and a small store (3 x 3 metres) has been built between the new kindergarten and the existing building for storing materials for the BKB. There is a large drain at the front of the site and no fence or wall around the site. There is a high bank at the back of the site. This is a new

site and a new kindergarten and the budget was Rp120 million. The accommodation consists of the standard large classroom, an office, a kitchen and store, a security room and toilets. The toilets have been reduced in number from five to two. The kindergarten has an electricity connection and is connected to the village water supply.

The kindergarten has no furniture yet though some outside play equipment has been delivered but not fixed. The kindergarten will start operation in June 2002 and will have 40 children and two teachers.



Plate 6: TK Desa Bila, Kecamatan Kubutambahan

Construction of the buildings started in August and was finished in October 2001 using local labour with a local supervisor. There were approximately 20 workers on site during construction. The supervisor received Rp40,000 a day, the foreman Rp35,000 a day, skilled workers Rp25,000/27,500 a day, and labourers between Rp12,500/15,000 a day. The CS visited twice a week and was very useful. He prepared a very basic site layout to scale 1:200. All floors including the verandas have been tiled with glazed ceramic tiles which were part of the community contribution. The community also donated bamboo panels for the ceilings to the veranda, the rooms and the external ceilings. The veranda has timber columns and the roof is of corrugated steel sheets which have been painted. The large classroom has 8 tungsten light fittings. The building is on the whole well built but the doors and windows (which are varnished) are not very well made or finished, the tiling to the floors is a little uneven and is not square laid, the



electrical installation is not complete and some fittings are not properly fixed and are dangerous. The building has one metre wide paving and a storm drain all round.

The total area including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,505,000 giving a cost per square metre of Rp673,439. It should be remembered that this cost did not include tiling to the floors or the ceiling panels which were donated by the community. This cost also did not include any site works apart from the external paving, storm drains and septic tank and soakaway.

2.6 TK Bina Putra Tamblang, Kecamatan Kubu Tambahan: This kindergarten is situated at the rear of a site containing school buildings used for primary, junior secondary and senior secondary schools. The kindergarten has a high wall around it to prevent the other school children from using its equipment. It is classed as a renovation but the old building was renovated and a new extension was built. The budget was however only Rp96 million. The accommodation consists of two classrooms, a kitchen with toilets behind at one end and a school office at the other. The kindergarten has an electricity connection and is connected to the town water supply. The kindergarten is clean and very well kept with a very good principal.



Plate 7: TK Bina Putra Tamblang, Kecamatan Kubu Tambahan

There are 54 children in two classes and 2 teachers including the principal. The kindergarten has furniture and equipment from the old building and new external play equipment. There was no problem with the site as it was an existing kindergarten.

Construction was started in February and completed in July 2001 using local labour with a local supervisor. Only the walls of the existing part of the building were retained. The floors, windows, doors and roof are all new. All floors including the veranda (which is very narrow and also has three steps) have been tiled with glazed ceramic tiles and the external and internal ceilings have been sealed with very nicely finished bamboo panels. All rooms have one tungsten light fitting. The building is on the whole well built, painted and finished but there are some cracks in the walls. The windows, doors and frames are well made and finished and the tiling is well done. The wall to the front and one side is new and there is a new sliding steel gate. The very narrow tiled, front veranda and steps will be dangerous to the children and teachers when wet.

The total area including walls but not verandas is 101m<sup>2</sup> and the total cost without the administration fee was Rp93,129,000 giving a cost per square metre of Rp922,069. This cost includes some paths, the new walls and the gate and the septic tank and soakaway.

2.7 BKB/Posyandu Post Bulian, Kecamatan Kubu Tambahan: This BKB/Posyandu Post is situated on a very small site in the centre of the village. Only the main room has been built although a small semi-permanent waiting area has been added later. The main room is quite well built but it is not clear how the facility operates.

2.8 TK Bulian, Kecamatan Kubu Tambahan: This kindergarten is situated on village land on a sloping site next to a road outside of the village. The site has been roughly terraced and the building has been constructed in three sections on three different levels. This is a new site and a new kindergarten and the budget was Rp120 million. The accommodation consists of the standard large classroom, an office, a security room, a kitchen and store and toilets. The kindergarten has an electricity connection and is connected to the town water supply.

The kindergarten has no furniture yet though the outside play equipment has been delivered but not fixed. The kindergarten will probably have 30 children and two teachers when it starts in June this year.

The building was started in August and finished in December 2001 using local labour with a local supervisor. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings have been sealed with ply panels. The veranda has timber columns and the roof is of corrugated steel sheets which have been painted (not very well; are the roof sheets and the paint to the correct specifications?). The building is on the whole well built but there are some cracks to walls and the floor tiling is not very good. The building has one metre wide paving and a storm drain all round and there is no wall or fence to the site. It is hoped that funds for the wall will be found this year.





Plate 8: BKB/Posyandu Post Bulian, Kecamatan Kubu Tambahan



Plate 9: TK Bulian, Kecamatan Kubu Tambahan

The roof and foundation costs must have been higher than at other sites because of the sloping site and there was also the additional cost of terracing the site but the budget was not increased. The community however assisted with levelling the site and also contributed 50% of the workers pay.

The total area including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,505,000 giving a cost per square metre of Rp673,439. This cost did not include any site works apart from the external paving, storm drains, septic tank and soakaway.

### 3. Kotamadya Denpasar Site Visits

3.1 TK Laksana Kumara, Banjar Kaja, Denpasar Selatan: This new kindergarten is situated on a small urban site and the design has been modified in order for it to fit the site. The budget for the building was Rp120 million. The accommodation consists of a large classroom (9 x 8 metres), two smaller classrooms (8 x 6 metres & 8 x 3.5 metres), an office, three toilets and a small kitchen. For some reason the width of the building was increased from the standard width. The kindergarten has an electricity connection and is connected to the town water supply. The kindergarten is clean and nicely kept.



Plate 10: TK Laksana Kumara, Banjar Kaja, Denpasar Selatan

It runs two shifts with 55 children in two classes in the first shift and 74 children in three classes in the second shift. It was stated that there would be more



children next year. There are 5 teachers including the principal; 3 government teachers and 2 employed by the kindergarten. The kindergarten has new furniture and external play equipment. It is sited on village land (800m<sup>2</sup>).

The building was started in December 200 and finished in June 2001 using local labour with a local supervisor. The building has a tiled roof and timber veranda columns. All floors including the verandas have been tiled with glazed ceramic tiles and the veranda ceiling has have been sealed with ply panels. The large classroom has 4No 1200mm fluorescent light fittings. The building is on the whole very well built, painted and finished but there are a lot of cracks in the walls (these have probably been caused by the render being too thick, too wet when applied or having too much cement or a combination of all three factors). The windows, doors and frames are very well made and the toilets are neatly tiled.

The total area including walls but not verandas is 199m<sup>2</sup> and the total budget without the administration fee was Rp116,505,800. However the community raised Rp133,000,000 as well giving a total budget of Rp249,505,800 and a cost per square metre of Rp1,253,798!!! This cost included a new wall at the front of the site, paving around the building, an entrance path and the septic tank and soakaway.

3.2 TK Kumara-Sari V, Serangan, Denpasar Selatan: This new kindergarten is situated on a small site next to the sea on the edge of a village. An existing building was demolished and a new building constructed. The budget was Rp120 million. The accommodation consists of the standard large classroom, an office, a kitchen and store and three toilets and a small store in a separate building with a fibre-cement roof (the security room has been omitted). The kindergarten has an electricity connection and has a new well and an electric pump for water.

There kindergarten operates two shifts with 34 children in one class, 2 government teachers including the principal and one teacher employed by the kindergarten. The kindergarten has furniture and some external play equipment. There was no problem with the site as it was an existing kindergarten site.

The building was started in January and finished in June 2001 using local labour with a local supervisor. The building has a tiled roof and timber veranda columns. All floors including the verandas have been tiled with glazed ceramic tiles and the veranda ceiling has been sealed with ply panels. The large classroom has two tungsten light fittings! The building is quite well built, painted and finished but the well is only 8 metres from the septic tank and soakaway. The soil here is very sandy and porous and the water table is probably quite high. There is great danger therefore of contamination of the well by the soil drainage and a new well should be constructed at least 30 metres away from the septic tank and soakaway.

The total area including walls but not verandas is 150m<sup>2</sup> and the total budget without the administration fee was Rp116,505,800. The community however donated Rp19,000,000 giving a total cost of Rp135,505,800 and a cost per square metre of Rp903,372. This cost however includes a new wall round the site, paving and drains around the building, a small 'puja' (temple) and the septic tank and soakaway.



Plate 11: TK Kumara-Sari V, Serangan, Denpasar Selatan

3.3 TK Sanur Kauh, Werdhi Kumara, Denpasar Selatan: This is a new kindergarten on a new site in a middle class housing area and the budget was Rp116 million. The accommodation consists of the standard large classroom, an office, a kitchen and store and toilets (the security room has been omitted). The toilets have been reduced in number from five to three. The kindergarten has an electricity connection and is connected to the village water supply.

The kindergarten has no furniture or equipment yet. The kindergarten should start operation in June 2002 and will have 40 children and two teachers.

The building has a tiled roof and RC veranda columns. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings all round have been sealed with locally made bamboo panels. The building is well built with nice tiling, good concrete, rendering and paintwork and good joinery. The building has one metre wide paving all round but the paving at the rear is already breaking up. Excavation for a wall around the site is in progress and the site has been filled with limestone.

The total area including walls but not verandas is 150m<sup>2</sup> and the total budget without the administration fee was Rp112,520,000. However the community donated Rp239,000,000 giving a total cost of Rp351,520,000 and a cost per square metre of Rp2,343,467!!!. This cost does however include the site wall, the filling

of the site, a small puja, the external paving (but no storm drains) and the septic tank and soakaway.



Plate 12: TK Sanur Kauh, Werdhi Kumara, Denpasar Selatan

3.4 TK Kumara Sari 7, Desa Padang Sambian Klod, Denpasar Barat: This kindergarten is situated on a small site behind the desa office. Because of the size and shape of the site, the standard design has been modified to form an L-shaped building. One wing contains two classrooms, a small kitchen and three toilets and the other a large office. This is a new site and a new kindergarten and the budget was Rp120 million. The kindergarten does not have an electricity connection or installation and is connected to well next to the desa office. It is hoped to get connected to the village water supply later. The kindergarten is not very clean.

The kindergarten has furniture but the outside play equipment has been delivered but not fixed. The kindergarten operates two shifts and has two classes of 32 children in each class in each shift. There are 2 government teachers and 3 teachers paid for by the kindergarten.





Plate 13: TK Kumara Sari 7, Desa Padang Sambian Klod, Denpasar Barat

The building has a tiled roof and timber and RC veranda columns. All floors including the verandas have been tiled with glazed ceramic tiles and the ceiling to the veranda only has been sealed with ply panels. The building is quite well built but the joinery and painting are not very well finished. Some ceiling panels are coming down and the ceilings require another coat of paint. There is also a leak to the roof over one veranda. The paving and drains to the classroom wing are not complete at the rear and there are none to the office wing. The site has been filled with limestone but still requires levelling.

Construction of the buildings started in June and was finished in December 2001 using local labour with a local supervisor. There were approximately 18 workers on site during construction and the work took 1620 man days. The supervisor received Rp35,000 a day, the foreman Rp30,000 a day and workers Rp25,000 a day. The CS visited twice a week and was very useful.

The total area including walls but not verandas is 212m<sup>2</sup> and the budget without the administration fee was Rp116,505,000 and the community donated a further Rp20,000,000 for the building giving a total cost of Rp138,505,000 and a cost per square metre of Rp653,325. This did not include any site works apart from the external paving, storm drains and septic tank and soakaway. The community donated a further Rp7.5 million for the site filling. The site is liable to flooding and requires large drains all round.



3.5 BKB/Posyandu Post, Sindu Kelod, Samur, Denpasar Selatan: This BKB is situated in the village 'banjar' (meeting place). An existing building in one corner of the banjar, consisting of an office and store has been very well renovated with new doors, tiled floors and painting. The standard budget was Rp3 million but the community contributed a further Rp10 million.



Plate 14: BKB/Posyandu Post, Sindu Kelod, Samur, Denpasar Selatan

3.6 TK Sabana Sari, Padang Sambian Kajar, Denpasar Barat: This is a new kindergarten situated on a very small site in a middle class housing area on the edge of the village. The site sloped steeply and has had to have approximately 2 metres of fill at the front. There are two buildings set at different levels. The higher building has three toilets and a security room and no veranda and the lower building has a kitchen and store, an office and a large, standard classroom. The budget for the buildings was Rp120 million. The kindergarten has an electricity connection and a deep well and electric pump for its water supply. There are also two small pujas on the site.

The kindergarten operates two shifts, the first with two classes of 30 children and the second with two classes of 29 and 27. There are 2 government teachers including the principal and 1 teacher paid for by the kindergarten. The kindergarten has furniture and new outside play equipment and was built on village land.



Plate 15: TK Sabana Sari, Padang Sambian Kajar, Denpasar Barat

The buildings have tiled roofs, timber veranda columns, glazed ceramic tiled floors and veranda, ply ceilings but no ceilings to the veranda or elsewhere externally. The classroom has 8 tungsten light fittings. The building is well built with nice tiling, good joinery and painting and good roof timbers. Some ceiling panels are coming loose however. The site has been filled with walls all round and the buildings have paving all round. There are also steps up to a higher level at the entrance where there is a simple covered area for play and parking motor cycles. The steps on the site are very high; much too high for small children. The construction work started in June and was finished in December 2001 and took 1200 man days. The supervisor received Rp35,000 a day, the foreman Rp35,000 a day, skilled workers Rp30,000 a day and labourers Rp25,000 a day.

The total area including walls but not verandas is 173m<sup>2</sup> and the total budget without the administration fee was Rp116,505,000 giving a cost per square metre of Rp673,439. This cost includes the paving round the building, steps and the septic tank and soakaway. The community however donated Rp90 million which was used to pay for the site filling, the two puras, the walls, the gate and the covered play area.

3.7 TK Widya Santhi 2, Ubang, Denpasar Barat: This existing kindergarten is situated on a small site in the village bounded on one side by a large stream and on the other by a main road. The budget was Rp116 million. The kindergarten is at present using a semi-permanent building with rendered brick walls to 1.2 metres



high and timber framing above with bamboo panelling. It has two classrooms and an office all of which are very dark. There is a new L-shaped building constructed by the project with 3 toilets, a small kitchen, a security room and an office in one wing and two classrooms, one small and one larger in the other. The kindergarten has an electricity connection and will be connected to the town water supply. There are two small puras on the site.



Plate 16: TK Widya Santhi 2, Ubang, Denpasar Barat

The new building has no furniture yet and is not being used. The kindergarten at present operates two shifts of two classes each with classes of 34 and 32 in the first shift and 20 and 30 in the second shift in the old building. When the new building is being used there will only be one shift. There are 3 government teachers and 2 paid for by the kindergarten.

The building was started in June and finished in December 2001 using local labour with a local supervisor. The buildings have tiled roofs, timber veranda columns, floors to rooms and verandas are tiled with concrete tiles in accordance with the original specification. Ceilings are of ply panels and there are no external ceilings. The building is well built with good joinery and roof timbers but the painting, especially to the ceilings is not very good. There are also some cracks to walls and some ceiling panels are coming off. There are two 600mm fluorescent light fittings to the larger classroom. There is no paving or drains around the building. There is a temporary bamboo fence along the road side of the site which it is hoped to replace this year with a permanent fence.

The construction work started in June and was finished in December 2001 and took 1470 man days. The foreman received Rp35,000 a day, skilled workers Rp35,000 a day and labourers Rp25,000 a day. The CS visited the site 3 times a week and was very useful.

The total area including walls but not verandas is 165m<sup>2</sup> and the total budget without the administration fee was Rp112,520,000 giving a cost per square metre of Rp681,939. This cost does not include any site works apart from the septic tank and soakaway. The community also donated Rp10 million for the two puras and Rp11 million on labour and materials for backfilling the site.

3.8 TK Kantika, Peguyangan Kaja, Denpasar Barat: This is a new kindergarten situated on a site in the village behind the Banjar. The site is flat and the building is L-shaped at the rear of the site. One wing has 3 toilets, a small kitchen and an office and the other wing has 2 classrooms, one larger than the other. A new wall has been built around three sides of the site and there is a small pura. The budget for the building was Rp116 million. The kindergarten has an electricity connection and is connected to the village water supply.

The kindergarten is built on village land, has furniture and outside play equipment and has 50 children in two classes. There are 2 government teachers including the principal and 2 teachers paid for by the kindergarten.

The building has tiled roofs, RC veranda columns, glazed ceramic tiled floors and veranda, ply ceilings and very nice bamboo panels to the ceiling of the veranda. The classrooms have 4No 1200mm fluorescent light fittings. The building is well built with nice tiling, very good doors and windows and painting and very well finished roof timbers. The building is paved all round.

This is probably the best built and finished kindergarten seen and is very clean and well looked after. The community, builders and teachers have obviously put a lot of effort into building and caring for the kindergarten.

The construction work started in June and was finished in December 2001 and took 1875 man days. Skilled workers received Rp30,000 a day and labourers Rp25,000 a day. The CS visited the site once a week and was very useful.

The total area including walls but not verandas is 165m<sup>2</sup> and the total budget without the administration fee was Rp112, 520,000 but the community contributed Rp46 million giving a total cost of Rp158,520,000 and a cost per square metre of Rp960,727. This cost however includes the paving round the building, the new wall and pura and the septic tank and soakaway.



Plate 17: TK Kantika, Peguyangan Kaja, Denpasar Barat

3.9 TK Kumara Windhu Kencana 1, Penatih, Denpasar Timur: This is a new kindergarten situated on a very small site off a main road with a school on one side and a large stream on the other. The site slopes steeply in two directions. The kindergarten has been constructed in two buildings. The higher building is set at two levels and contains a large classroom (that has been subdivided into a classroom and office) and a smaller classroom and the lower building has a small kitchen, a store, a security room and three toilets. The budget for the buildings was Rp116 million. The kindergarten has an electricity connection but no water supply yet.

The kindergarten has two classes of 25 and 30 children and there is 1 government teacher and 2 teachers paid for by the kindergarten. The kindergarten has furniture and new outside play equipment and was built on village land.

The buildings have tiled roofs, timber veranda columns, glazed ceramic tiled floors and veranda, ply ceilings but no ceilings to the veranda or elsewhere. The large classroom has 3 tungsten light fittings. The building is reasonably finished but there are some quite bad cracks to walls. The site has been levelled, filled and paved with walls all round. There are very high steps between the various levels, much too high for small children. The handrail to the higher building is not very well designed or built; the CS should have designed a better one. It was obviously a very difficult and expensive site to develop.



The construction work started in June and was finished in December 2001 and took 1875 man days. The foreman received Rp35,000 a day, skilled workers Rp30,000 a day and labourers Rp25,000 a day. The CS visited the site 4 times a week and was very helpful.

The total area including walls but not verandas is 171m<sup>2</sup> and the total budget without the administration fee was Rp112,520,000 giving a cost per square metre of Rp658,011. This cost does not include the cost of filling and levelling, paving, the boundary wall or the small pura, the cost of which (RP19 million) was contributed by the community.



Plate 18: TK Kumara Windhu Kencana 1, Penatih, Denpasar Timur

## **ANNEX 2: REPORT ON VISIT TO SOUTH SULAWESI PROVINCE**

### **1. General**

- 1.3 South Sulawesi Province was visited in the company of the CPMU Construction Adviser from May 9<sup>th</sup> to May 12<sup>th</sup> 2002.
- 1.4 Meetings were held with PPIU Project Manager and staff before and after visits were made to two of the districts where renovation and construction work is in progress.
- 1.5 Visits were made to sites in Gowa and Bulakumba Districts. Details of the site visits are given below.
- 1.6 All new kindergartens are built to a standard single-storey design. Only the Type 1 design is being used in South Sulawesi Province and that has one large classroom (12 x 7 metres), a kitchen and store (3 x 7 metres), a teacher's office and sick room (3 x 7 metres), a security room (3 x 7 metres) and toilets (3 x 7 metres).
- 1.7 New BKB/Posyandu Posts are also being built, usually on the same sites as the kindergartens. These consist of a small office/interview room (3 x 3 metres) and a covered waiting/meeting area.
- 1.8 All buildings are constructed of RC frames with rendered brick walls, RC or timber veranda columns, galvanised corrugated steel roof sheets on timber roof trusses and purlins, timber glazed top-hung windows with open louvres over and hardwood panelled doors. Floors to classrooms and verandas are generally finished with concrete (abu-abu) tiles.
- 1.9 Rp120 million was originally budgeted for new Type 1 kindergartens (though this has been increased this year to Rp145 million) and Rp96 million for renovating existing kindergartens. Rp20 million was budgeted for the construction of BKB/Posyandu Posts and Rp5 million for the renovation of existing posts. All these budgets included 3% for administration costs. In some cases, communities donated money and materials in order to increase these budget sums.
- 1.10 Teachers are at present being trained for the kindergartens in Macassar and most of the new kindergartens will open in June/July when the teachers return from training. All teachers were recruited from the villages where they will teach.
- 1.11 Detailed site layouts showing the positions of the buildings on the sites, levels, etc (though some of these were later revised) were produced by the civil works consultants.

### **2. Gowa District Site Visits**

- 2.1 **TK Pusat Padu Bunga Mawar, Bonto Manai, Kecamatan Bonto Makassar:** The kindergarten is situated on the same site as a BKB/Posyandu Post. The site is

large, flat and rather wet and situated on the edge of the village. The BKB Post is the standard design with a small office/interview room and a large covered waiting area/meeting space. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store, a security room and 5 toilets. The kindergarten has an electricity connection and is connected to a well with an electric pump at the far end of the site well away from the septic tank and soakaway. The sites for both buildings have registration certificates from BPN, the national land authority. The site is not fenced but does have a hedge to three sides but not the front. The kindergarten is however set well back from the front of the site. The budget for the kindergarten was Rp120 million and for the BKB/Posyandu Post Rp20 million.



Plate 1: TK Pusat Padu Bunga Mawar, Bonto Manai, Kecamatan Bonto Makassar

The kindergarten will start operating in June when the teachers return from training. There will be 25 and 20 children in two classes and two teachers. In the meantime two volunteers from the village are running a playgroup in the building for 43 children twice a week. The building is also being used every day in the afternoons for teaching the Koran to 36 students.

The BKB/Posyandu Post is in operation. Two nurses visit once a week and a doctor visits once a month. The BKB was in operation during the visit and was full of mothers and babies waiting to see the nurses for the babies to be weighed and checked. The BKB office has a desk and chairs and an obstetric bed which is used for birth control uses.



The buildings have corrugated steel roofs (only 0.2mm thick) on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with large, good quality concrete tiles and the external ceilings are not sealed. The verandas have RC columns. The large classroom has 6 No 600 fluorescent light fittings. The toilets have glazed ceramic tiles to floors and walls. Both buildings have paving and storm drains all round. The buildings are generally well built, painted and finished but the rendering is a bit rough and the joinery is not very well finished. The floors are however neatly tiled although the tiles require some cleaning. The ceiling space is not sealed at the eaves and birds and bats can gain entrance.

Construction started in June and was finished in September 2001 using local labour with a local supervisor and a total of 2,730 man days. The workers on the site accepted lower rates than normal as their contribution to the construction of the buildings. The foreman received Rp13,500 a day (Rp25,000), the skilled workers received Rp15,000 a day (Rp25,000) and the labourers received Rp9,000 a day (Rp15,000). The Construction Supervisor visited the site 2/3 times a week and was very useful. The door positions in the classrooms should be changed in future to allow the doors to fold back against the veranda walls.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,404,000 giving a cost per square metre of Rp673,439. This cost includes the drains and paving around the building, the well and electric pump and the septic tank and soakaway. The community contributed Rp9 million in labour for clearing and filling the site.

The total area of the BKB/Posyandu Post including the waiting space is 56m<sup>2</sup> and the budget was Rp20 million less 3% giving a construction budget of Rp19,400,000 and a square metre rate of Rp346,429.

- 3.2 TK Pusat Padu Bulaengta, Gantarang, Kecamatan Tinggi Mancang: The site for this kindergarten and BKB/Posyandu Post is situated in a remote rural village 7 kilometres from the nearest main road up a hilly, rough, stone road. The site is on a hillside behind the village office and a primary school. The site slopes and has been cut and levelled. The BKB Post is the standard design with a small office/interview room and a large covered waiting area/meeting space. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store, a security room and 5 toilets. The kindergarten has an electricity connection and is connected to the village supply from a spring further up the hill. The sites for both buildings have registration certificates from BPN, the national land authority. The site is fenced with a bamboo fence. The budget for the kindergarten was Rp120 million and for the BKB/Posyandu Post Rp20 million. The village has provided and is paying for a watchman.

The kindergarten will start operating in June/July when the teachers return from training. There will be 50 children in two classes and two teachers. The building is at present being used one day a week for teaching the Koran to 60 students. The kindergarten has 25 sets of classroom furniture, desks and chairs for teachers and outside play equipment.



Plate 2: TK Pusat Padu Bulaengta, Gantarang, Kecamatan Tinggi Mancang

The BKB/Posyandu Post is in operation. Two nurses and a doctor visit once a month.

The buildings have corrugated steel roofs (only 0.2mm thick) on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with small concrete tiles of not very good quality and the external ceilings are not sealed. The verandas have RC columns. The large classroom has 8 No tungsten light fittings. The toilets have glazed ceramic tiles to floors and walls. Both buildings have paving all round and a drain to the front of the kindergarten. The paving is not very good; it has been raised above ground level and is breaking up in many places. The building is generally well built but the joinery is not very well finished. All painted surfaces require a further coat of paint. The floors are however neatly tiled although the tiles require a lot of cleaning and the RC columns and roof timbers are good. The veranda wall has been painted with a very nice mural. The external wall does not go up to the roof at the eaves and birds and bats can gain entrance. Overall however this is quite a good building for such a remote location where skilled labour must have been difficult to find and supervision must also have been difficult.

Construction started in July and was finished in September 2001 using local labour with a local supervisor and a total of 2,730 man days. The foreman received Rp15,000 a day, the skilled workers received Rp17,500 a day and the labourers provided their labour free as part of the community contribution. The

community also cleared and levelled the site; 40 men providing labour one day a week for 6 weeks. The community also donated the timber and bamboo fence. All materials apart from aggregate for concrete had to be brought in from outside the village and cost at least 10% more than elsewhere. The nearest supplier for most materials is 60 kilometres away. The Construction Supervisor visited the site once a week by motorcycle and was very useful.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,404,000 giving a cost per square metre of Rp673,439. This cost includes the drains and paving around the building and the septic tank and soakaway.

The total area of the BKB/Posyandu Post including the waiting space is 56m<sup>2</sup> and the budget was Rp20 million less 3% giving a construction budget of Rp19,400,000 and a square metre rate of Rp346,429.

- 3.3 TK Harapan Bangsa, Belapun Ranga, Kecamatan Parang Loe: The site for this kindergarten and BKB/Posyandu Post is situated on the edge of a fairly remote, rural village. The site is large, gently sloping and very wet with a large drain at the back. The site has required backfilling under the buildings because of the slope and to raise them above the water (the main kindergarten building is raised by 70cm at the front). The BKB Post is the standard design with a small office/interview room and a large covered waiting area/meeting space. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store and a security room and 5 toilets in a separate building. The kindergarten does not have an electricity connection yet (although it has been paid for) but is connected to the village water supply. The sites for both buildings (total area 2,078m<sup>2</sup>) have registration certificates from BPN, the national land authority. The site is not yet fenced but the materials for a bamboo fence are on site. The budget for the kindergarten was Rp120 million and for the BKB/Posyandu Post Rp20 million. The village has provided and is paying for a watchman.

The kindergarten will start operating in June/July when the teachers return from training. 40 children have registered for the kindergarten and it is hoped to get more. There will be two teachers. The kindergarten has 25 sets of classroom furniture, desks and chairs for teachers and outside play equipment.

The BKB/Posyandu Post is in operation. Two nurses and a doctor visit once a month.

The buildings have corrugated steel roofs (only 0.2mm thick) on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with large, good quality concrete tiles and the external ceilings are not sealed. The verandas have RC columns. The toilets have glazed ceramic tiles to floors and walls. All three buildings have good quality paving and storm drains all round. The buildings are generally well built but the joinery is not very well finished and the ceilings and walls require a further

coat of paint. The floors are however neatly tiled although the tiles require cleaning and the RC columns and roof timbers are good.



Plate 3: TK Harapan Bangsa, Belapun Ranga, Kecamatan Parang Loe

Construction started in June and was finished in October 2001 using local labour with a local supervisor. The two foremen received Rp20,000 a day, the six skilled workers received Rp25,000 a day and the 15/20 labourers received Rp15,000. The community contributed Rp27,350,000 in backfilling for the buildings and for upgrading the roof timbers from second class to first class. The community also donated the timber and bamboo fence. The Construction Supervisor visited the site once a week by motorcycle and was very useful. The villagers wanted the buildings to be separated as built. Filling and paving is required between the two kindergarten buildings.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp116,404,000 giving a cost per square metre of Rp673,439. This cost includes the drains and paving around the building and the septic tank and soakaway.

The total area of the BKB/Posyandu Post including the waiting space is 56m<sup>2</sup> and the budget was Rp20 million less 3% giving a construction budget of Rp19,400,000 and a square metre rate of Rp346,429.

#### 4. Bulukumba District Site Visits

4.1 TK Kusuma Wijaya, Benjaya, Kecamatan Bonto Bakau: The kindergarten is situated, together with a BKB/Posyandu Post on a small, slightly sloping site in the middle of a rural village. The BKB Post is situated at the front of the site and is the standard design with a small office/interview room and a large covered waiting area/meeting space. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store and a security room and 5 toilets in a separate building. The buildings are connected by a paved entrance/covered link. The kindergarten has an electricity connection and will soon be connected to the village water supply. The sites for both buildings have registration certificates from BPN, the national land authority; the land (area 1,700m<sup>2</sup>) was a gift from the head of the LKMD. The site is fenced with a bamboo fence. The budget for the kindergarten was Rp145 million and for the BKB/Posyandu Post Rp20 million.

The kindergarten will start operating in June when the teachers return from training. There will be 50 children in shift one and 50 children in shift two (the village really needs the larger two classroom kindergarten; it has 200 children of kindergarten age) and two teachers. The kindergarten already has classroom furniture and outside play equipment.

The BKB/Posyandu Post started operation in December 2001 operation. Three nurses visit once a month from a health centre 7 kilometres away. The BKB was in operation during the visit and was full of mothers and babies waiting to see the nurses for the babies to be weighed and checked. The BKB office has a desk and chairs.

The buildings have corrugated steel roofs on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings are sealed with fibre-cement sheets. The verandas have timber columns. The large classroom has outlets for 6No light fittings. The toilets have glazed ceramic tiles to floors and walls. All buildings have paving and storm drains all round. The area of the main kindergarten building has been filled and has small retaining walls. The buildings are generally well built though the roofs and ceilings are a little uneven, the finish to the rendering and joinery is not very good and all painted surfaces require another coat of paint. The floors are however neatly tiled.

Construction started in October 2001 and was finished in February 2002 using local labour with a local supervisor and a total of 3,200 man days. The two foremen received Rp20,000, the ten skilled workers received Rp15,000 a day and the twenty labourers received Rp10,000 a day. The Construction Supervisor visited the site twice a week and was very useful.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp144,565,000 giving a cost per square metre of Rp835,636. This cost includes the drains and paving around the building and the septic tank and soakaway. The community contributed Rp15



million which included labour for clearing and filling the site, the covered entrance/link and the extra cost of the glazed tiles.



Plate 4: BKB/Posyandu Post, Benjaya, Kecamatan Bonto Bakau

The total area of the BKB/Posyandu Post including the waiting space is 56m<sup>2</sup> and the budget was Rp20 million less 3% giving a construction budget of Rp19,400,000 and a square metre rate of RP 346,429.





Plate 5: TK Kusuma Wijaya, Benjaya, Kecamatan Bonto Bakau

4.2 TK Tombong Ratu, Laitang, Kecamatan Kayang: This kindergarten is situated on a small, very wet site behind some houses in the middle of the village with a cocoa plantation on a slight hill behind it. The BKB/Posyandu post is on another site half a kilometre away. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store, a security room and 5 toilets. The community have constructed a short covered entrance in front of the building. The kindergarten has a temporary electricity connection (the permanent connection is in progress) and will have water from a well. The site has a registration certificates from BPN, the national land authority. The site is fenced with a concrete wall in front and a bamboo fence to the side. The budget for the kindergarten was Rp145 million.

The kindergarten will start operating in June/July when the teachers return from training. There will be 50 children in two classes (more than 50 have registered) and two teachers. The kindergarten has 25 sets of classroom furniture, desks and chairs for teachers and outside play equipment.

The building has a corrugated steel roof on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings are sealed with fibre-cement sheets. The veranda has timber columns. The large classroom has 8 tungsten light fittings. The toilets have glazed ceramic tiles to floors and walls. The building has paving and drains all round. The building is

generally well built but the rendering, painting and finishing is not very good and the tiled floors require cleaning. There is one settlement crack to one wall. All painted surfaces require a further coat of paint. The toilets are neatly tiled. The external walls do not go right up to the roof at the eaves and birds and bats can gain entrance. As has been stated the site is very wet and there is standing water in several places including over the septic tank. A cut-off drain should be built across the side of the site where water is entering and it was agreed that the well should be built behind the kindergarten up a slight hill at least 15 metres from the septic tank not where it was planned to put it very close to the septic tank. The site will also probably require more fill.

Construction started in October 2001 and was finished in March 2002 using local labour with a local supervisor and a total of 1,720 man days. The foreman received Rp20,000 a day, the skilled workers (5) received Rp15,000 a day and the labourers (12) received Rp10,000 a day. The Construction Supervisor visited the site twice a week and was very useful.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp144,565,000 giving a cost per square metre of Rp835,636. This cost includes the drains and paving around the building and the septic tank and soakaway. The community contributed Rp12 million to cover the cost of the entrance, the fence and for some fill on the site.

- 4.3 TK Pertiwi Tanah Jaya, Tanah Jaya, Kecamatan Kajang: This is a renovation and extension of an existing kindergarten on a very small site on the main road next to the kecamatan office in the middle of the village. The kindergarten accommodation consists of a new large classroom, an existing smaller classroom and two toilets. The floor and lower walls and RC columns of the existing classroom were retained but the whole building has new veranda columns, a new roof structure and ceilings (the existing roof sheets were re-used over the existing classroom area). The kindergarten does not yet have an electricity connection but is connected to the village water supply. The site is not fenced but a fence will be built later. The budget for the kindergarten was Rp96 million.

The kindergarten will start full operation in June/July when the teachers return from training. At present two shifts of 30 children each are using the old classroom which has some furniture. There is no new furniture or new play equipment yet.

The building has a (badly) painted corrugated steel roof on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings are sealed with fibre-cement sheets. The veranda has timber columns. The building is quite well built but the rendering and joinery are not very well finished (the windows are different in the old classroom) and the internal and external ceilings and walls all require at least one further coat of paint. The large classroom has six 600mm fluorescent lights but the electrical installation overall is badly wired and sub-standard.





Plate 6: TK Pertiwi Tanah Jaya, Tanah Jaya, Kecamatan Kajang

Construction started in October 2001 and was finished in March 2002 using local labour with a local supervisor and a total of 1,120 man days. The two foremen received Rp17,500 a day, the two skilled workers received Rp18,000 a day and the 14 labourers received Rp10,000. The Construction Supervisor visited the site twice a week.

The total area of the kindergarten including walls but not verandas is 160m<sup>2</sup> and the total cost without the administration fee was Rp93,120,000 giving a cost per square metre of Rp582,000. This cost includes the septic tank and soakaway.

4.4 TK Julu Atia, Patiroang, Kecamatan Kajang: The kindergarten is situated, together with a BKB/Posyandu Post, on a small site in the middle of a rural village. The BKB Post is situated at the front of the site and is the standard design with a small office/interview room and a large covered waiting area/meeting space. The kindergarten accommodation is at the back of the site and consists of the standard large classroom, an office, a kitchen/store, a security room and 5 toilets. The site slopes away quite steeply behind the kindergarten. The buildings are connected by a path and an entrance/covered link. The kindergarten does not have an electricity connection yet but should be soon connected. The water supply is from a very deep well. The sites for both buildings (total area 1,700m<sup>2</sup>) have registration certificates from BPN, the national land authority but the actual area of land donated by the community is much larger (2,190m<sup>2</sup>). The site has a new concrete wall to the front. The budget for the kindergarten was Rp145 million and for the BKB/Posyandu Post Rp20 million.



Plate 7: TK Julu Atia, Patiroang, Kecamatan Kajang

The kindergarten will start operating in June/July when the teachers return from training. There will be 50 children in two shifts and two teachers. The kindergarten already has classroom furniture and outside play equipment but is not being used. The BKB/Posyandu Post is also not yet being used.

The buildings have corrugated steel roofs on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors (apart from the BKB Post) including the verandas have been tiled with glazed ceramic tiles and the external ceilings are sealed with fibre-cement sheets. The verandas have timber columns. The classroom has 4 tungsten light fittings. The toilets have glazed ceramic tiles to floors and walls. All buildings have paving and storm drains all round apart from the kindergarten which does not have a drain at the back. The area of the kindergarten building has been filled and has a small retaining wall at the rear. The buildings are generally well built though the finishing to the rendering and joinery is not very good and all painted surfaces require one or two more coats of paint. The floors are however neatly tiled. The external walls to the front and rear of the kindergarten also need completing at the top to stop access by birds and bats. The septic tank and soakaway have been constructed only 6 metres from the well and should be moved to the rear of the building down hill from the well and at least 15 metres away.

Construction started in October 2001 and was finished in January 2002 using local labour with a local supervisor and a total of approximately 1,700 man days. The

foremen (2) received Rp17,000, the skilled workers (14) received Rp20,000 a day and the labourers (25) received Rp12,500 a day.

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp144,565,000 giving a cost per square metre of Rp835,636. This cost includes the drains and paving around the building, the fence at the front of the site and the well, septic tank and soakaway. The community contributed Rp8 million which included labour for clearing and filling the site, the covered entrance/link and the extra cost of the ceramic tiles.

The total area of the BKB/Posyandu Post including the waiting space is 56m<sup>2</sup> and the budget was Rp20 million less 3% giving a construction budget of Rp19,400,000 and a square metre rate of Rp346,429.

4.5 TK Bunga Mawar, Bonto Mate'ne, Kecamatan Bulukumba: This kindergarten is situated on a small site on the edge of a rural village. The BKB/Posyandu post is on another site 3 kilometres away. The kindergarten accommodation consists of the standard large classroom, an office, a kitchen/store and a security room and 5 toilets in a separate building at right-angles to the main building. The two buildings are connected by a path and short covered way. The site slopes away from the road and has a cocoa plantation at the rear. The electricity connection is in progress and the water supply is from a new well. The site has a registration certificates from BPN, the national land authority. There is no fence to the site. The budget for the kindergarten was Rp145 million. A lot of villagers came to the kindergarten during the visit and there is obviously a lot of community support and a nice atmosphere.

The kindergarten will start operating in June/July when the teachers return from training. There will be 50 children in two shifts and two teachers. The kindergarten has 25 sets of classroom furniture, desks and chairs for teachers and outside play equipment.

The building has a corrugated steel roof on timber trusses and purlins, fibre-cement ceiling panels and timber windows and doors. All floors including the verandas have been tiled with glazed ceramic tiles and the external ceilings are sealed with fibre-cement sheets. The veranda has timber columns. The large classroom has 8No tungsten light fittings. The toilets have glazed ceramic tiles to floors and walls. The building has paving all round and drains to the front of the main building. The building is generally well built but the external rendering is very poor. The joinery, doors and painting are however quite good and the floor tiling and tiling to toilets is good. The external veranda wall to the main building and the walls to the classroom have been painted with very nice Disney murals. The septic tank is 16 metres downhill from the well and is just about acceptable.

Construction started in October 2001 and was finished in March 2002 using local labour with a local supervisor and a total of 1,700 man days. The foremen (2) received Rp17,000 a day, the skilled workers (8) received Rp19,000 a day and the labourers (16) received Rp11,000 a day.





Plate 8: TK Bunga Mawar, Bonto Mate'ne, Kecamatan Bulukumba

The total area of the kindergarten including walls but not verandas is 173m<sup>2</sup> and the total cost without the administration fee was Rp144,565,000 giving a cost per square metre of Rp835,636. This cost includes the paving around the building, the well and the septic tank and soakaway. The community contributed Rp15 million to cover the cost of the covered way, clearing the site and for filling beneath the main building.