

PRELIMINARY STUDY TO PRIMARY EDUCATION FACILITIES: A Comparison Study between Indonesia and Developed Countries

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ABSTRACT:

This writing is a preliminary study to condition of primary education facilities in Indonesia, and then comparing these with theories and various relevant cases aimed to see the problem more obviously. There is difference between primary education facilities in Indonesia with those in developed countries. Meanwhile on the other hand, the completion of education facility is actually as main factor contributes to find the purpose of learning process. If building design, interior and also site plan were dynamic in form, space, colour and tools, those would be probably more stimulate activity and influence into the growth of students. However, lastly, it is still needed further analysis, as an example analysis to behavioural aspect of students in spaces of learning environment, more detail and within enough time, not only at indoor spaces but also at outdoor.

Keywords: Primary education facilities, Learning process, Human resources

1. BACKGROUND

Formerly, education has been being practiced in Indonesia, even since colonialism period. Nevertheless, in that period education was still enjoyed by limited people and often in context to obtain colonial's accomplishments. There is also exists, development of our education in Orde Lama Period and in Orde Baru Period. It is further introduced 9 years of Compulsory Education Program (Elementary School and Junior High School). SD Inpres have been built throughout Indonesia, or besides these, we certainly often see renovation of SD buildings while we will commemorate Independence Day on August 17th every year, as an example. Curriculum is also frequently getting reforms.

Unfortunately, what and how education system should be and will be, seem still going on so slowly. Deals with this, noted that development of resources in Indonesia was just on position of 107 from 147 countries, though quality of resources is actually in on position of 2 (UNDP Survey 2000). It is could be as measurement how quality of Indonesia's human resources.

In particular, there is difference between education system of majority schools in Indonesia and this in developed countries. Often, school in our mind, is still imagines as a simple classroom, in walls, floors, ceilings, furniture, and other learning completions. Therefore, on that class, students listening carefully to the teacher and then writing on their books, and also working exercises given by teacher or writing some questions and then bringing those to their home as homework. In brief, our education has not been attempted to use democratic-style yet, such as using two way learning method. In fact, it was ever held CBSA¹ Program, nevertheless did not quiet effective due to various problems, such as: restriction skill of teacher as well as facilities, or monitoring which is unavailable, etc.

It is not scarce students look "fully laziness" or "have no wanted". In fact, the most waiting time for them is rest hour or when learning time has been finish. On the other

word, often the phenomenon which occurs is "missing-freedom syndrome". The more so, there are so many entertainment facilities out of school, various television channels or playing centre such as: internet facility, malls, game centres, etc.

2. FORMULATION OF PROBLEM

From the background described above, in particular, it is attractive to study primary education facilities² in Indonesia more accurately. In brief, further, questions which should be answered are: how are real conditions, how are more detail problems and how to improve these in the future?

3. THEORIES

Now day, many experts relate intelligence with creativity. Based on many source, Primadi (2005) points out, now it is found that modern people also think with creativity within unconscious. Even, in fact, creativity more work on picture language more on "deep energy" not merely by cerebral cortex, more on integration of senses not only by eyes.

Before we are going to further analysis, it is essential to considering several categorizations of the growth of human nature ability, as explained follows:

Categorization by Elizabeth B. Hurlock:

Age 0 – 4 year	: Early child
Age 4 – 12 year	: Child

² In Foreign countries mainly in developed countries, Primary Education Facilities contain of Pre-School and Elementary School, on the other words early education process in Pre School has been considered on the same importance with Elementary School, due to containing of "golden age". In Indonesia, there are Playgroup and Taman Kanak-kanak (TK or Kindergarten) as Pre-School facilities, before a child enroll to Sekolah Dasar (SD/ Elementary School). However majority of children in Indonesia enroll directly to Sekolah Dasar.

¹ Cara Belajar Siswa Aktif (Active Student Learning Method)

Age 12-16 year : Adolescent
 Age 16 – 20 year : Adult

Table 1 Specialization of Ability by Piaget

Stage	Age	Specialization of Ability
Sensory motor	0 – 24 month	- The growth on scheme of reflect to know surroundings - Getting ability on perception of object determination
Pre-Operational	1 - 5 year	- Utilisation of symbol and arrange internal response, for example in : play, language and imitation
Real Operational	5 – 12 year	- Getting ability to think of real problem schematically - Getting conservation ability
Formal Operational	12 - adult	- Getting ability to think more schematically into abstraction as well as hypothesis.

Table 2 Space Conception based on Step of Child's Growth

Stage	Age	Space Conception
Sensory motor Pre-Operational	0 – 24 month 1 – 5 year	In this stage, a child begins to understand both sequent and route, but this ability has not been completely grown up yet. In this stage further is exist, the growth of typology relationship, encompass: 1. Proximity or nearness. 2. Separation. 3. Order or spatial succession. 4. Enclosure or surrounding. 5. Continuity
Concrete Operational	5 – 12 year	In this stage children begin to understand the meaning of projective space, encompass : 1. Understand and also able to operate well entirely situation in sequent and object. For example: link between the way to school and home. 2. Understand more to alternative of space and its choices rather than arrange relation of space that quiet new for them.
Formal Operational	12 - adult	Getting ability to think. In this stage, children begin to imagine space clearly and also logically (euclidean space), in which children can abstract linkage among all of spaces.

Source : Irwin Altman & Daniel Stokols (Handbook of Environment Psychology Vol 1: 1992)

According to explanation above, all stages of age is has the similar importance within framework of the growth of human nature. However, from explanation of Piaget, Irwin Altman and Daniel Stokols can be seen the most important complex growth during the age of 0 to 12 years. There is also link among 4 phases of categorization explained above. On the other words, a phase always relates with other phases. So, the fault of act in one of primary stages may be affect to the next stages.

Meanwhile, step of school in Indonesia are generally as below:

1. Playgroup and Kindergarten³ : 2,5 - 7 year
2. Elementary School⁴ : 7 - 13 year
3. Junior High School and Senior High School⁵ : 13 – 19 year

Intelligence as both cognitive aspect and high creativity will be growth consecutively (Hurlock: 1990). There are also positive linkage between intelligence and creativity. Creativity in creating something new depends upon general knowledge that has been accepted.

Meanwhile, Munandar (1990) explains, that creativity is ability to create new combination based on data, information or elements. Creativity also has the real meaning as ability to finding various possibilities of answer for a problem, in quantity, rightness, and variation of answers.

Therefore, the question that should be answered are, how intelligent and creativity can be grown up, meanwhile the condition of facilities is still very restricted? Therefore, how far is facilities affect into the growth of students?

According to various researches and also design experiences, there are various theories which have described requirements for education facilities. As an example, Lackney (2003) provides 33 Principles of Educational Design. On a part of all explanation Lackney was described Principle for Primary Educational Space, it can be seen as the table below:

Table 3 33 Principles of Educational Design

A. Educational Facility Planning & Design Process Principles
1: Maximize Collaboration in School Planning and Design 2: Build a Proactive Facility Management Program 3: Plan Schools as Neighbourhood-Scaled Community Learning Centres 4: Plan for Learning to Take Place Directly in the Community
B. Principles for Site & Building Organization
5: Create Smaller Schools 6: Respect Contextual Compatibility While Providing Design Diversity 7: Consider Home as a Template for School 8: Meander Circulation while Ensuring Supervision 9: Design for Safe Schools
C. Principles for Primary Educational Space
10: Cluster Instructional Areas 11: Provide Space for Sharing Instructional Resources 12: Design for a Variety of Learning Groups and Spaces 13: Keep Class Sizes Small 14: Provide Resource-Rich Well-Defined Activity Pockets 15: Integrate Early Childhood Education into the Community School 16: Provide a Home Base for Every Learner 17: Regard Teachers as Professionals 18: Provide Studios to Support Project-based Learning 19: Encourage Administrative Leadership by Decentralizing Administrative Space
D. Principles for Shared School and Community Facilities
20: Establish a Community Forum 21: Allow for Community Conferencing Space 22: Create Privacy Niches 23: Weave Together Virtual and Physical Learning Spaces
E. Community Spaces
24: Provide Opportunities for Job Training 25: Provide Parent Information Centres 26: Provide Health Care Service Centres
F. Character of All Spaces
27: Design Places with Respect for Scale and Developmental Need 28: Maximize Natural and Full-Spectrum Lighting 29: Design Healthy Buildings 30: Design for Appropriate Acoustics
G. Site Design and Outdoor Learning Spaces
31: Allow for Transitional Spaces Between Indoor and Outdoor Spaces 32: Establish a Variety of Outdoor Learning Environments 33: Separate Children and Pedestrians from Vehicles and Service

Source <http://www.edfacilities.org/>.

Meanwhile, Dale Lang (2003) suggests criteria of learning environment that simpler than the table above:

Essential Criteria for an Ideal Learning Environment explores whether schools and classroom spaces enhance or detract from the learning process. Notes that when planning or remodelling a classroom environment, a successful learning space requires that both the educator and designer understand and be aware of the following qualities: size, shape, and scale; acoustical quality and noise control; illumination and views; temperature, humidity, and ventilation; communications, electrical power, and technology; and material finishes, textures, and colours.

As more real condition, it is essential to be noticed, study cases and comparison studies, in order to know comparison between better primary education facilities with formal buildings of SD Inpres which often have the similar style, from Sabang until Merauke.

³ In Indonesia it is introduced as Taman Kanak-Kanak (TK)

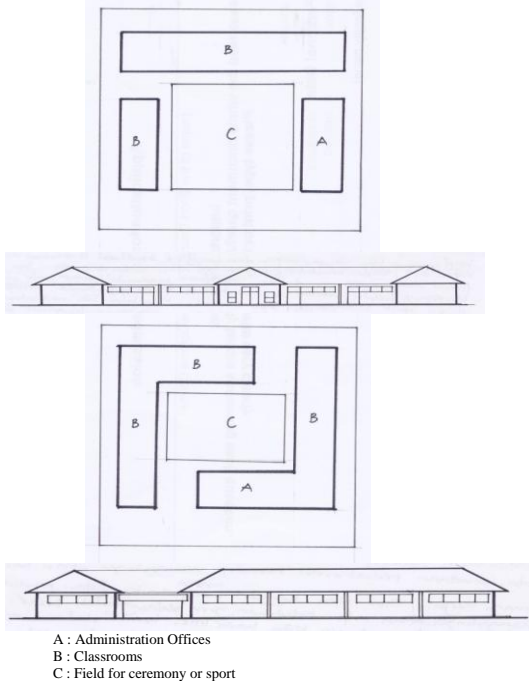
⁴ In Indonesia it is introduced as Sekolah Dasar (SD)

⁵ In Indonesia those are introduced as SMP (Sekolah Menengah Pertama) and SMU (Sekolah Menengah Umum)

4. STUDY CASE

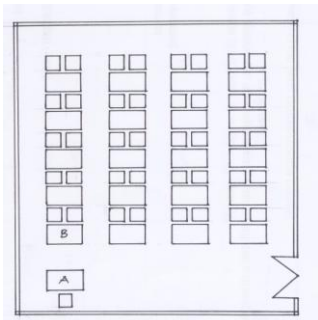
4.1. Condition of Majority Primary Education Facilities in Indonesia

Classrooms which are to be line up and/or to be surround the field or to face to the street, it is often found since we were still in SD (Elementary School), even until SMU (Senior High School). SD building is identically as a simple building with *pelana* or *perisai* form of roof, to be completed by name board in front of the school, made from wood or iron. There are only a small numbers of SDN (State Elementary School) which have better quality of design in building and in interior as well as in program.



Picture 1 Illustration of buildings pattern and form of SD Elementary School

Layout of room is so formal merely match with one way learning method, in which a teacher explains lecture and giving instruction and then students attending to his/her, listening carefully and working to answer some questions.



Majority layout of classroom



Often, facilities are so restricted

Picture 2 Illustration of Condition of Class

4.2. MBE Project

Managing Basic Education Project (MBE Project) (*since when*) is a program aimed at improvement of primary education facilities. It is sponsored by US-AID, therefore on its process block grant from Depdiknas (National Education Ministry) or from foreign countries is given to Komite Sekolah (School Committee) and also managed by them.

Pictures below present how the processes of this program and also how the results.



Picture 3 Process and Results of MBE Project

Pictures above present how the process of renovating school buildings and surrounding. Therefore can also be seen how application of other methods in learning, such as: discussing, working in group, presentation in front of the class, and participation method. On the other words, it has been attempted to combine both one way learning method and two way learning method. Therefore, students have more chance for developing their skill as well as creativity.

Room designs seem more dynamic by interior layout of tables, chairs and other completion facilities. Noticed, it is more directly support to discussing and working together (working in groups). Student's works put in surround the classroom, to stimulate student's spirit to create more and more.

Outdoor activity is included in this program, such as: visiting recreation or historical place or visiting traditional market as economical place.



Picture 4 Example of Outdoor Activities

4.3. Modern Primary Education Facilities owned by Private Sector or Personal

Besides state elementary schools, there are a lot of primary educational facilities built and managed by private sector. As an example in Bandung, there are exist, TK and SD Salman Al Farisi. This school have been completed with better learning method as well as facilities. In particular, curriculum of this is more offer chance towards the growth of intelligence as well as creativity. Child can be more possible to have good tendency in selecting among any possibilities as well as in taking decision.

Below are illustrations of condition.



Picture 5 Illustration of Modern Primary Education Facilities in Indonesia

However, unfortunately, schools like this can only be enrolled by limited people. There is therefore exists, the other tendency, competition of a part of consumers to reach “prestige needs”.

5. COMPARISON STUDIES: Primary Education Facilities In Developed Countries

This part is analysis to several examples of primary education facilities in foreign countries. In foreign countries mainly in developed countries, primary education facilities have adequately fulfilled more complete requirement. They have a better consideration to essential factors which affect to the growth of children. Following are various illustrations described on five significant aspects distilled from several theories within previous part. On the other word, these are analysis based on essential aspects which more vividly perform encompass: (1) Form and Colour, (2) Layout, (3) Equipment, (4) Completion Facility and (5) Curriculum.

5.1. Form and Colour in Building and Interior



Howard E. Hollingsworth Elementary School
1776 E. Ogden Ave., Las Vegas NV



Reed School Reed Union School District
Tiburon, California



Briargrove Elementary School
6145 San Felipe



Wendell P. Williams Elementary School
Last Vegas

Planning primary education environment have to consider functional principal aspects also should consider creativity of design in form, colour and composition. All of these should optimally be applied in designing building, site plan, and also interior.



Radnor Elementary School,
Pennsylvania Railroad
Harry Pettoni, REFP, as director of
studio Gilbert Architects Inc.



Children Playground in an
Exclusive Facility, JAC
Jakarta. School like this is
very rare in Indonesia

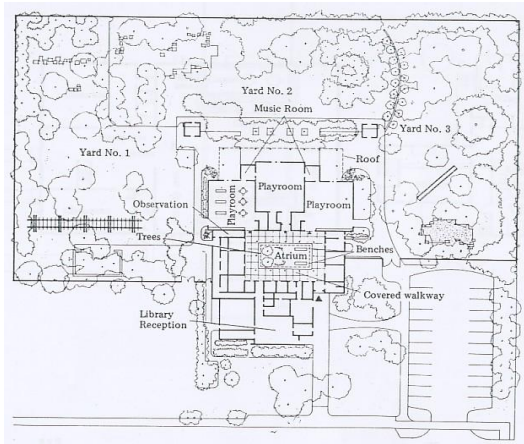


Reed School Reed Union
School District, Tiburon,
California

Interior with creative design in space, form, detail as well as colour, applied on classroom design or another room besides of class.

Picture 6 Form and Colour in Building and Interior of
Primary Education Facilities in Developed Countries

5.2. Layout



Dynamic layout of space in primary education environment
 There is harmony and balance between learning activity and experiment activity (trying to practice much more freely) by providing playroom, atrium, yard 1, 2 and 3. There is to be provided music room as an activity which also supports education.
 Location: Bing Nursery School, Stanford, California
 Architect and site planner: Clark, Royston, and friends



On example above it is provided enough barrier between school's building and noisy areas: the road, drop off area and parking area, so that noise can be minimized. Classroom, as space for transforming knowledge get more priority while electing location.
 Then, there are completed with: sport field and play field, as supporting facilities besides of indoor facilities within school building.
 Location: Reed School Reed Union School District, Tiburon, California

Picture 7 Layout of Primary Education Facilities in Progressing countries

5.3. Equipments

There is especially presents several examples of furniture within primary education facilities, those might led us, how to selecting and also designing furniture adjust with child's body anatomy, and their activities. Besides these, considering flexibility of motion and the last but not least, considering how to stimulate their thought and activity as well as to encourage their creativity.



Furniture design is considering child's body anatomy



The Columbus School Medellin, Colombia
 Considering of flexibility of motion within learning.



Playing in Sand Sand and Deck at Kihikihi Kindergarten

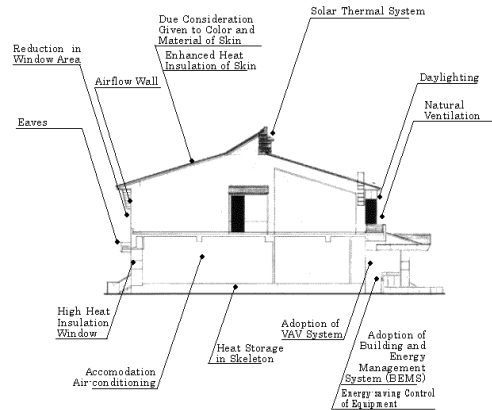


Playing by movable equipment Swing Bridge at Otorohanga

Kindergarten
 Pictures above are examples of the completion of outdoor furniture. It should more give chance to trying (experiment, adventure, etc)
Picture 8 Equipments of Primary Education Facilities in Developed Countries

5.4. Completion Facilities

Education facilities should have complete facilities then these would be more pleasant for students while learning is going on. Several examples below are show education facilities provided with completion facilities such as: carpet, AC, acoustic, application of technology, etc.



Nihonmatsu Municipal Harase Elementary School
 Location : Harase-saiki, Nihonmatsu, Fukushima
 Architect : Hiraki Architecture Design Office



Lighting system in the room New Minnesota Elementary School
 Design by: The American Institute of Architects



Carpet, and lighting system in the room New Minnesota Elementary School
 Design by: The American Institute of Architects



Animation system in playing facilities for children
 Game corner for children at Cafe Ullreich



Lighting system and colour arrangement in playing facilities for children
 Game corner for children at Cafe Ullreich

Picture 9 Completion Facilities of Primary Education Facilities in Developed Countries

Curriculum

The last but not least is requirement of consideration into curriculum of primary education. Curriculum is also certainly associated with other prior aspects ((5.1)-(5.4)) because it will relate with providing facilities in where learning activities taken place. On the other words, a space which being designed should also considering activities that will further occur here, either for indoor activities or outdoor activities. Meanwhile activities actually depend upon curriculum.

Here an example, shown how schedule in Elementary School in Japan.

Table 4 Sample of Schedule of Elementary School in Japan

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Science	Japanese	Home Economics	Art	Social Studies
2	Science	Math	Math	Art	General Studies
3	Physical Education	Music	Physical Education	Math	Math
4	Math	Social Studies	Japanese	Social Studies	Japanese
Lunch					
5	Japanese	General Studies	Music	Japanese	Ethic
		General Studies		Club and Committee meetings	

Sumber : <http://web-jpn.org/kidsweb/japan/schools.html>

On above we can notice how the importance of Cultural (Japanese), General Studies and Social Studies is given attention properly. Japanese has the highest proportion (5 hours/ week), the second is Math (4 hours/ week), therefore the third is General Studies, and Social Studies (3 hours/ week).

Other example quoted from explanation of curriculum of The Columbus School in Medellin, Colombia:

All grades 2 to 5 homeroom teachers are accountable for teaching and assessing a core curriculum of Language Arts, Math, Science, Social Studies and Computers, in English. Additionally, students have weekly classes in Integrated Arts, Physical Education, Religion, and Spanish/Colombian Social Studies, with specialist teachers. Our curriculum is based on standards, benchmarks and essential agreements for each subject and grade, developed by our staff. Annually, we review and revise as necessary to ensure that a meaningful and coherent scope and sequence of skills, concepts, knowledge and attitudes are systematically being taught and assessed. Curriculum maps developed by teachers at each grade level identify themes and units taught, and unit plans are continually being refined by teacher teams. This year, we are in our second year of addressing five cross-curricular, "Big Learner Outcomes" partly initiated to extend and enrich learning inherent in student portfolios and student-led conferences, two long-standing practices at our school. We are in our third year using a standards-referenced report card that addresses our academic curriculum as well as habits of mind/dispositions, utilizing a four-point developmental continuum. We endeavour to employ a 'backward-design planning' model in unit design (first determine specific curriculum outcomes desired, then design assessments, and finally, determine activities).
Source : Curriculum of The Columbus School - Medellin, Colombia

Underlined words above show comprehensive scope of knowledge and better consideration on toward sustainability of entirely step within education process. Therefore, these pictures below present examples of places and activities of students in term applying curriculum which considering applicative aspects:



Location: London Borough of Southwark
 Often these locations visits by students as part of field visit which supporting the lecture



Children are planting flowers and the others plants, in Programme Grant Applications to Yorkshire Bank's Conservation Award Scheme supporting by Forum for Education Arts Development and an Arts for Everyone Lottery (1997).
 Supporting Natural Science Knowledge for example: Biology



The Winner of Merit Award, Djidi Aboriginal School, Edgar Idle Wade Architects. Exterior Design of School which have consideration of cultural aspect.

Developing creativity in playing music in schools, either modern music or traditional music



Kid Centre's Camp Before and After School for Pre School and K-6th grade.
 As part of way to encourage the nearness to nature: land, water, air, etc

Picture 10 Activities affected by Curriculum of Primary Education Facilities in Developed Countries

6. ANALYSIS

Primary Education Facilities (or Primary Education Environment) is essential to get appropriate thought. According to various theories of the growth of human, step of age from 0 to 12 years is important step will contribute towards further steps. A part of children have opportunity to follow education in Playgroup or Kindergarten (Pre-School) before they pursue to Elementary School (Sekolah Dasar). However, in fact in our country, due to one and more factors, majority of children enrol directly to elementary school⁶.

From explanation on the last part (5.1 - 5.5) can be noticed differences between primary education facilities in Indonesia with developed countries. Meanwhile, on the other hand, related to theory of the growth of child's ability, the completion of learning facilities is actually as important factor aim at the purpose of education process. If design of building, interior and also outdoor area created more dynamic of form, colour and the completion of tools, therefore, it will be probable to stimulate activities more dynamic as well as to support the growth of students.

However, in fact, majority of primary schools around of us just have formal and simple layout to be completed with pictures of president and vice president, lesson schedule, and working schedule hanging on the

⁶ In foreign countries, majority of Early School Facilities or Pre-School included in Elementary School.

wall. Walls, floors, ceilings and also furniture are so simple. Moreover, it is not rare the walls have broken or the walls merely made of bamboo, or even the roofs have been leak. There are exist, primary schools with complete facilities but those can only be enrolled by restricted children of rich families.

The builder of State Elementary School (*Sekolah Dasar Negeri*) in Indonesia is government (Dinas Pekerjaan Umum (PU). The same as Indonesia, various schools in foreign countries are also built by government. Nevertheless, their governments have had better consideration toward education and its facilities. There are also many schools in Indonesia which were built by private actors, but those are higher in payment. On the other hand, private sectors in foreign countries have been properly grown up due to more establish of capital accumulation among communities (more high level of economical factor). Majority of their communities also have higher income, so that enable them to pay expensive school payment. Meanwhile, in Indonesia majority of children are still categorized as students whose parents with restricted income, so that they must spend so hard to pay for education and also to buy various school needs for their children. In their daily life, they play only with all of restricted condition. Going to recreation place can indeed be enjoyed by a few of children. However, not all of children are so lucky like the others else. As we know, there is introduced, ironically terminology within our communities, “just for eat, is so hard”.

There is exist, Managing Basic Education Program (MBE-Program) sponsored by USAID (US-Aid). This program is has purpose to improve education facilities as well as learning style. It has also going on in many elementary schools in Indonesia, but it is still higher numbers of elementary schools which do not accept this program. The more so, this program is aid, so actually we can not have excessive expectation to this. The question is: Can we going to improve primary education facilities “independently”, not merely depend upon aid from foreign countries? On the other words, how innovative learning strategy as well as method can be certainly including within Indonesia’s curriculum, not only as temporal action (“ceremonial only”) which can be disappear by the time?

Children’s ability would not certainly growth within so adequate and also complete facilities. Not scarce, skills can arise due to constraint or restriction. By these, then creativity is indeed possible to appear. On the other words, a child can be stimulated to be creative by constraint such as stressing condition. Stress is also as a part of challenges. Breaking challenge is one of ways of problem solving which included in creative process. Nevertheless, very restricted condition is not always conducive. Based on many researches and also experience, can be noticed that human resources could not be automatically and immediately appear. Whitebrook, Howes, and Phillips (1989) point out that it is widely accepted that a developmentally appropriate – one with well trained and consistent staff in sufficient numbers moderately sized groupings of children and proper equipment and activities, will lead to good child care.

As a simple analogy, a village’s child would have higher probability to adventure on various challenges in

natural environment. In this case, environment is as media in where activity taken place. The more so, if think this in term to elaborate integration among the whole of sense abilities (look at theory review page 1 and 2), it will need various consideration. Furthermore Philips, Scarr, and Mc. Cartney (1989) point out that, children in higher quality centres have shown more advance communication skills and verbal intelligence and more positive behaviour and task orientation. In principle, breaking challenge couldn’t just naturally, will be better if passing formal education which completed with obvious strategy, process and purpose.

It is also necessary to studying elementary schools which were built by private sector or by look at MBE program. It is found that child can probably grown up better. Learning process and its facility also can be adjusted become more exciting and children can feel more pleasant by education.

Therefore, it is also essential to giving analysis to numerous previous theories and previous researches. For example as More et al (1989) point out that mixing of ages in smaller centres offered opportunity to serve as models and to enrich overall play possibilities. Another is a study by Rohe and Nuffer (1977) have shown that while increasing spatial density by reducing space tended to increase aggressive behaviour, sheltering activity areas by inserting partitions increased cooperative behaviour. Therefore Sanoff (1994) points out that the design of school requires the development of a building program that can spatially respond to the developmental goals of the teachers of young children as well as to the literature on children development and behaviour. In sum, not only standards which should be studied, but also smart and creative designs should be explored.

The last but not least which also essential is consideration of curriculum aspect. As we know, that architecture is never can be separated with activity which happened on a building. Actually, curriculum of primary education should have enough consideration to application aspects (student’s activities) besides of theoretical aspect. On the other hand, it is attractive to see Japanese education style as an example, in which so consistent to considering their local culture (Japanese). Though Japan has reached modernization steps, but this of communities do not become leave their local culture aspect. Therefore, no doubt that it is affect to the formation of their specific identity although so highly globalization streams, they could reach strong country with particular character of community.

We should also compare the growth of human resource in Indonesia with several foreign countries which is categorized “young” in getting their Independence Day (below of 100 years), for example: Korea, Singapore or Malaysia. These countries, noticed, have significantly achieved progress in the growth of quality of human resources, which then affect to physical progress of their country.

It is obviously essential to considering infestation on generation, mostly for improvement of state elementary schools throughout Indonesia. Consideration to other parts such as: economy, politic, law, etc are also important. Nevertheless, all of those would have smaller chance to

grow and sustain without supported with appropriate quality of human resources. Ideas as well as thoughts in advance for various parts in the country are actually affected by skill of human resources.

In short, we have to emphasize on think of primary education facilities throughout of Indonesia mainly state elementary schools because those are as expectation for majority of our communities.

7. CONCLUSION

Thus is all of this descriptive writing. However, this is brief writing that explaining problems and then comparing those with theories and several relevant cases, by this, therefore to be expected, we could more obviously view the problem.

It is certainly needed further analysis to know problems more detail, know how to evaluate primary education facilities in Indonesia and also know better designs. For example, it is should be done analysis to student's behaviour in spaces, included in classroom, in the other school's rooms besides classroom, and also in outer of the classroom⁷. Furthermore, it is essential to comparing accurately among several cases of elementary schools as well as to know the whole of more completely processes.

8. THE EDGE NOTES

When various questions within my brain, involving about where Indonesia will be?

However when little children pass my house every day, my heart say that there are exist next generation besides us.

We as well as they will still bring this country certainly go ahead.

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⁷ In playground around of building school or in natural environment as part of object of study.