



DEPARTMENT OF EDUCATION
 Region X- Northern Mindanao
DIVISION OF MALAYBALAY CITY
 Sayre Highway, P6, Casisang City of Malaybalay
 Telefax # 088-314-0094

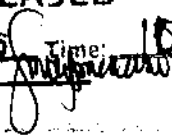


DIVISION MEMORANDUM

No. 559 s. 2016

To : **Chief Education Supervisors and Staff (SGOD)**
Chief Education Supervisors and Staff (CID)
School Heads (Elementary and Secondary)
Section/Unit Heads
All Others Concerned

FROM : 
EDILBERTO L. OPLENARIA, CESO VI
 Schools Division Superintendent

2016-10-325
 DepEd MALAYBALAY CITY DIVISION
RELEASED
 Date: OCT 24 2016 Time: 1004
 By: 

DATE : **October 21, 2016**

RE : **Creation of Division Bottom-up Budgeting Technical Working Group (BuB TWG)**

1. Pursuant to the herein DipEd Order No. 24, s. 2015, this Office hereby creates the Division Bottom-up Budgeting (BuB) Technical Working Group (BuB TWG) to oversee and ensure smooth implementation of BuB Project effective immediately.

2. The BuB TWG is composed of the following:

- | | |
|---------------------------|---|
| Chairman | : Edilberto L. Oplenaria, CESO VI
Schools Division Superintendent |
| Co-Chairman | : Ralph T. Quirog
Chief Education Supervisor - CID |
| Members | |
| School Management | : Angelina A. Cacharo, PhD
EPS II-M&E |
| Monitoring and Evaluation | |
| Planning and Research | : Rosalio P. Arangco
SEPS-Planning and Research |
| Education Facilities | : Leslie T. Fontanilla
Education Facilities |
| School Health | : Nancy L. Dequito, RN
Nurse II |
| Budget and Accounting | : Rhysa Cyle C. Rosalejos, CPA
Accountant III |

Sibyl L. Maputi
Administrative Officer V- Budget

Division Focal Person of each Bub Project

Gulayan sa Paaralan	:	Luis S. Alajar Education Program Supervisor
IP Education	:	Josie D. Zamora Education Program Supervisor
Alive Education	:	Virgillin R. Pizarro Education Program Supervisor
ALS	:	Jasmine J. Adriatico Education Program Supervisor Gretchen V. Catane Education Program Specialist II
SPED	:	Jasmin J. Adriatico Education Program Supervisor
Secretariat/BuB Coordinator	:	Lorenzo O. Capacio, EdD Chief, SGOD

3. As provided in the Enclosure No. 2 of DepEd Order No. 24, s. 2016, Division BuB-TWG shall perform the following roles and responsibilities:

- i. The chair shall convene meetings and deliberation of the SDO TWG and provide regular feedback to the Regional Director;
- ii. Provide technical assistance and relevant data and information during the formulation of LPRAPs;
- iii. Consolidate review, and validate together with RO the submitted LPRAPs;
- iv. Inform and coordinate with the LPRAPs on the final and approved Bub projects as well as updates on its implementation;
- v. The Budget Division to release funds through sub-Allotment Release Order (sub-ARO) to recipient school;
- vi. Facilitate the implantation of BuB project lodged in SDO;
- vii. Monitor the implementation and prepare quarterly progress reports for submission to RO; and
- viii. The secretariat shall set the meetings and document discussions of the meetings and consolidate issues and concerns relative to BuB Project implementation.

4. For compliance.

Encl.:
As stated
Copy furnished:



Republic of the Philippines
Department of Education

30 SEP 2016

DepEd ORDER
No. **63**, s. 2016

**GUIDELINES ON THE IMPLEMENTATION AND MONITORING OF
FY 2016 BOTTOM-UP BUDGETING PROJECTS**

To: Undersecretaries
Assistant Secretaries
Bureau Directors
Directors of Services, Centers and Heads of Units
Regional Directors
Schools Division Superintendents
Heads, Public and Private Elementary and Secondary Schools
All Others Concerned

1. The Department of Education (DepEd) issues the enclosed **Guidelines on the Implementation and Monitoring of FY 2016 Bottom-Up Budgeting (BUB) Projects** which aims to set standards on the implementation of FY 2016 BUB Projects by Local Government Units (LGUs) and provide guidance to all DepEd Regional Offices (ROs) and Schools Division Offices (SDOs) for the monitoring and reporting of said projects.
2. This policy document also provides the provision on utilization of Program Support Fund (PSF) to ROs and SDOs to support activities that will ensure effective and efficient implementation of BUB projects.
3. All DepEd Orders and other related issuances, rules and regulations and provisions which are inconsistent with these guidelines are hereby repealed, rescinded, or modified accordingly.
4. Moreover, this policy shall take effect fifteen (15) days after its publication in the Official Gazette or a newspaper of general circulation.
5. Immediate dissemination of and strict compliance with this Order is directed.


DR. LEONOR MAGTOLIS BRIONES
Secretary

Encl.: As stated
Reference: None
To be indicated in the Perpetual Index
under the following subjects:

FUNDS
OFFICIALS
POLICY

PROGRAMS
PROJECTS

GUIDELINES ON THE IMPLEMENTATION AND MONITORING OF FY 2016 BOTTOM-UP BUDGETING PROJECTS

I. Rationale

1. The **DBM-DILG-DSWD-NAPC Joint Memorandum Circular (JMC) No. 7**, entitled "**Policy Guidelines and Procedures in the Implementation of the Bottom-Up Budgeting Program for FY 2016 and thereafter**" provides guidelines and procedures for the implementation of BUB Projects. This includes the implementation and management of BUB Projects by Local Government Units (LGUs) under Local Government Support Fund (LGSF) where DepEd's BUB projects belong.

2. In view of the above, this Order aims to set standards on the implementation of FY 2016 BUB Projects by LGUs, and provide guidance to DepEd ROs and SDOs to ensure effective and efficient program implementation, monitoring, and reporting of FY 2016 BUB Projects.

II. Scope of the Policy

3. This DepEd Order provides guidelines on the implementation of FY 2016 BUB Projects, particularly on establishing standards per project to be adopted by LGUs. This also covers the procedures on monitoring and reporting of BUB projects, and the provision for the utilization of Program Support Fund.

4. As stipulated in **paragraph 5.5.4 of the JMC 7**, "*LGUs shall be accountable for ensuring that the design and costing of these projects are within standard and do not exceed the cost of similar projects being implemented by National Government Agencies (NGAs) in the same locality and that government procurement, budgeting, accounting and auditing rules and regulations are observed*".

5. Thus, all FY 2016 BUB Projects such as construction of faculty rooms, school library, and clinic, and the provision of school furniture, that are not yet implemented are subject to comply with the standards set by this order.

6. Standards for BUB projects that are not mentioned in the previous paragraph such as installation of water supply to schools and construction of school fence depend on the type of needs as assessed by LGUs.

7. LGUs that have implemented or are currently implementing BUB projects prior to the release of this order are exempted from the standards set, but any observations shall still be reported as further discussed in paragraph 13.

III. Policy Statement

8. This policy issuance hereby establishes the set of guidelines on the implementation, monitoring, and reporting of FY 2016 BUB Projects. This issuance ensures that the BUB Projects implemented by the LGUs are in accordance with the standards design and specification set by the Department, which provide a conducive learning environment to Filipino learners in public elementary and secondary schools.

IV. Procedures

9. Fund Releases:

9.1 Fund Release for LGSF:

9.1.1 As stipulated in paragraph 5.5 of JMC 7, fund under the LGSF is comprehensively released by the Department of Budget and Management (DBM) to the Bureau of Treasury (BTr) through the issuance of Special Allotment Release Order (SARO).

9.1.2 Fund releases from BTr to LGUs will only be allowed if the beneficiary LGU has complied with the governance conditions set in the JMC.

9.2 Fund Release and Utilization for PSF:

9.2.1 A PSF was already provided to DepEd ROs and SDOs by Budget Division – Financial Service through the issuance of Sub-Allotment Release Order (Sub-ARO) to support activities that will ensure effective and efficient implementation of BUB projects by their respective LGUs. The PSF breakdown of ROs and SDOs is reflected in **Attachment 1**. The PSF shall be utilized for the following eligible activities:

- i. Engagement of personnel (contract-of-service or job orders) to assist BUB Coordinators in RO and SDO in the monitoring and reporting, including encoding to OpenBUB portal, of the BUB projects;
- ii. Conduct of activities in support of the implementation, monitoring and evaluation of BUB projects, such as coordination meetings/workshops, capacity building, technical assistance, field validation, benchmarking, and other related activities;
- iii. Purchase of supplies and materials;
- iv. Communication and transportation allowance/expenses of BUB Coordinators and Engineers;
- v. Advocacy materials (i.e. brochures, magazines, t-shirt, etc.); and
- vi. Repair and maintenance of service vehicles, including purchase of fuel and lubricants.

9.2.2 These eligible activities/expenses are also applicable to the remaining FY 2015 PSF.

9.2.3 To utilize this fund, the RO and SDO shall submit their Work and Financial Plan (WFP) using the prescribed template in **Attachment 2** to PPD-PS, Central Office or email at ps.ppd@deped.gov.ph for reference on or before **06 October 2016**.

9.2.4 Utilization and liquidation of fund shall be subject to the usual accounting and auditing rules and regulations.

10. Project Implementation and Documentary Requirements:

10.1 As mentioned in paragraph 4 of this order, LGUs will be accountable for ensuring that the design and costing of BUB projects are within the standard set by NGA, and do not exceed the cost of similar projects being implemented by NGAs in the same locality, and that government procurement, budgeting, accounting and auditing rules and regulations are observed.

10.2 Hence, conditions, standard designs, and specifications reflected on **Attachment 3** of this document should be adopted and strictly complied with by LGUs.

10.3 However, consistent with the JMC, LGUs may submit a revised detail, design, specification, and location as proposed in their Local Poverty Reduction Action Plan (LPRAP) and project briefs to SDOs under the following conditions:

- 10.3.1 The Local Poverty Reduction Action Team (LPRAT) has submitted a letter signed by the Local Chief Executives (LCE) and three (3) Civil Society Organization (CSO) signatories to the Regional Poverty Reduction Action Team (RPRAT) requesting for the replacement of the project and identifying the replacement project; and
- 10.3.2 The implementing agency has determined that there is a justifiable necessity for the revision of such details, design and specifications in order for the project to be implemented within the fiscal year and the approval of such revision has been communicated in writing to the LPRAT.

10.4 Any excess funds as a result of project completion may only be utilized if:

- 10.4.1 Provision of the same project within the same municipality other than a particular area identified by the LPRAT;
- 10.4.2 The implementation of the original project is not yet completed, thus the excess funds may be used to expand the scope of the original project; and
- 10.4.3 Provision of furniture, fixtures, equipment, tools and materials supplemental to the completed projects.

10.5 Pursuant to the JMC, to ensure compliance to the set standards, and as basis for monitoring, the LGUs shall submit to SDOs the following documents prior to the implementation of infrastructure projects (installation of water supply and construction of school fence, faculty rooms, library, as well as clinic):

- 10.5.1 Program of Works (POW) per recipient school duly signed by the Municipal Engineer (ME), Local Chief Executive (LCE), Engineer of SDO and concurred by Schools Division Superintendent;
- 10.5.2 Implementation schedule including procurement timelines; and
- 10.5.3 List of LGU counterpart items (such as learning materials, school furniture and fixture, medical supplies etc.) with quantity per recipient school.

10.6 For school furniture project, the LGUs shall submit to SDOs the following:

- 10.6.1 Implementation schedule including procurement timelines; and
- 10.6.2 List of recipient school with quantity of school furniture.

10.7 SDOs shall ensure the proper communication of these guidelines to LGUs to guarantee compliance with the standards and processes.

V. Monitoring and Reporting:

11. Monitoring of BUB projects shall be integrated in the regular conduct of monitoring and evaluation by the SDOs through BUB Monitoring Team/TWG.

12. The SDO's BUB Coordinators and/or Division Engineer shall keep copies of the documents mentioned in paragraphs 10.5 and 10.6 from LGUs for monitoring purposes.

13. The SDO shall monitor the procurement and implementation phases/stages. Any notable findings by the SDO on the implementation of the projects or deviation between "Official Quarterly Progress Report" from RPMT, and the result of internal monitoring should be referred to the ROs for endorsement to RPRAT for appropriate action.

14. This "Official Quarterly Progress Report" shall be provided by the RPMT to the Regional Office through the Regional BUB Coordinator. This shall subsequently be forwarded to the SDO BUB Coordinator for the quarterly reporting in the OpenBUB portal. The SDO BUB Coordinator shall update the status of BUB implementation in the OpenBUB Portal starting 3rd quarter reporting of 2016 or on October 1-21, 2016.

15. Thereafter, Planning and Programming Division - Planning Service (PPD-PS) shall validate the submitted Quarterly Progress Reports through the online reporting system within two (2) weeks after the online submission. The submitted progress status reports will be available for public viewing on the OpenBUB Portal five (5) weeks after the end of every quarter.

VII. References

16. All existing Orders and Memoranda inconsistent with this Order are rescinded. These guidelines shall remain in effect, unless sooner repealed, amended or rescinded.

VIII. Effectivity

17. These guidelines shall take effect fifteen (15) days after its publication in the Official Gazette or a newspaper of general circulation.

- nothing follows -

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PROGRAM SUPPORT FUND OF ROS AND SDOS

Attachment 1

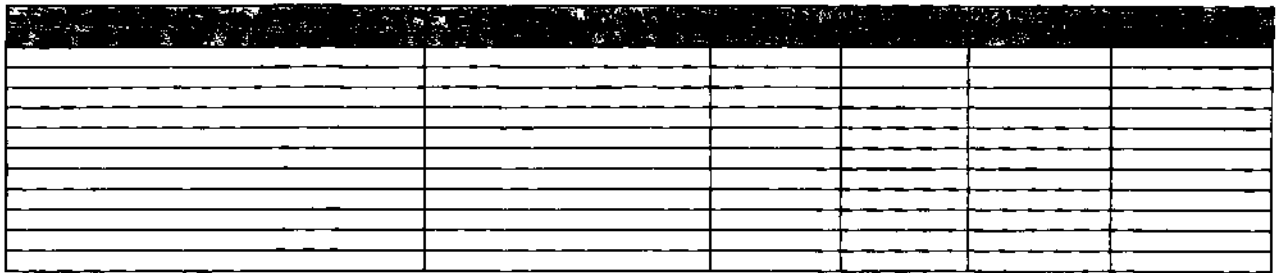
CAR	BENGUET	124,000
	REGIONAL OFFICE	100,000
Total, CAR		224,000
REGION I	ALAMINOS CITY	50,000
	BATAK CITY	50,000
	CANDON CITY	50,000
	ILOCOS NORTE	459,000
	ILOCOS SUR	655,000
	LA UNION	142,000
	LAOAG CITY	50,000
	PANGASINAN I	218,000
	PANGASINAN II	100,000
	SAN CARLOS CITY	50,000
	SAN FERNANDO CITY	50,000
	REGIONAL OFFICE	862,000
Total, REGION I		2,736,000
REGION II	CAGAYAN	320,000
	ISABELA	760,000
	NUEVA VIZCAYA	207,000
	QUIRINO	155,000
	TUGUEGARAO CITY	58,000
	REGIONAL OFFICE	750,000
Total, REGION II		2,250,000
REGION III	AURORA	109,000
	BATAAN	50,000
	BULACAN	395,000
	MEYCAUYAN CITY	50,000
	MABALACAT CITY	58,000
	MALOLO CITY	50,000
	NUEVA ECIJA	216,000
	OLONGAPO CITY	50,000
	PAMPANGA	524,000
	SAN FERNANDO CITY	50,000
	SAN JOSE DEL MONTE CITY	58,000
	TARLAC	270,000
	TARLAC CITY	85,000
	ZAMBALES	288,000
REGIONAL OFFICE	1,082,000	
Total, REGION III		3,335,000
REGION IV-A	ANTIPOLO CITY	60,000
	BATANGAS	1,001,000
	CALAMBA CITY	51,000
	CAVITE	882,000
	CAVITE CITY	50,000
	IMUS CITY	50,000
	LAGUNA	601,000
	LUCENA CITY	50,000
	QUEZON	507,000
	RIZAL	364,000
	SAN PABLO CITY	50,000
	STA. ROSA CITY	82,000
	TANAUAN CITY	50,000
REGIONAL OFFICE	1,844,000	
Total, REGION IV-A		5,642,000

REGION IV-B	CALAPAN CITY	50,000
	MARINDUQUE	50,000
	OCC. MINDORO	50,000
	OR. MINDORO	160,000
	PALAWAN	459,000
	ROMBLON	168,000
	REGIONAL OFFICE	441,000
	Total, REGION IV-B	2,706,000
NCR	CALOOCAN CITY	154,000
	LAS PINAS CITY	14,000
	MARIKINA CITY	27,000
	NAVOTAS	112,000
	QUEZON CITY	70,000
	SAN JUAN CITY	38,000
	TAGUIG CITY	13,000
	REGIONAL OFFICE	214,000
Total, NCR	642,000	
REGION V	ALBAY	236,000
	CAMARINES NORTE	50,000
	CAMARINES SUR	374,000
	CATANDUANES	50,000
	MASBATE	86,000
	TABACO CITY	50,000
	REGIONAL OFFICE	397,000
Total, REGION V	1,243,000	
REGION VI	AKLAN	134,000
	ANTIQUE	271,000
	CAPIZ	50,000
	GUIMARAS	191,000
	ILOILO	414,000
	PASSI CITY	50,000
	ROXAS CITY	50,000
	REGIONAL OFFICE	552,000
Total, REGION VI	1,712,000	
REGION VII	BOHOL	390,000
	CEBU	558,000
	CITY OF CARCAR	50,000
	CITY OF NAGA	66,000
	DANA O CITY	100,000
	SIQUIJOR	162,000
	TALISAY CITY	58,000
	REGIONAL OFFICE	672,000
Total, REGION VII	2,056,000	
NEGROS ISLAND REGION	BAGO CITY	50,000
	CADIZ CITY	50,000
	DUMAGUETE CITY	50,000
	ESCALANTE CITY	50,000
	CITY OF GUIHULNGAN	51,000
	KABANKALAN CITY	96,000
	NEGROS OCCIDENTAL	317,000
	SAGAY CITY	60,000
	SAN CARLOS CITY	110,000
	SITAY CITY	50,000
	NEGROS ORIENTAL	173,000
	REGIONAL OFFICE	462,000
Total, NIR	1,519,000	

REGION VIII	BILIRAN	91,000
	CALBAYOG CITY	50,000
	EASTERN SAMAR	223,000
	LEYTE	532,000
	MAASIN CITY	57,000
	NORTHERN SAMAR	310,000
	ORMOC CITY	50,000
	SAMAR	223,000
	SOUTHERN LEYTE	359,000
	REGIONAL OFFICE	914,000
Total, REGION VIII		2,809,000
REGION IX	DAPITAN CITY	75,000
	DIPOLOG CITY	73,000
	ZAMBOANGA DEL NORTE	472,000
	ZAMBOANGA DEL SUR	234,000
	ZAMBOANGA SIBUGAY	89,000
	REGIONAL OFFICE	472,000
Total, REGION IX		1,415,000
REGION X	BUKIDNON	50,000
	LANAO DEL NORTE	71,000
	REGIONAL OFFICE	100,000
Total, REGION X		221,000
REGION XI	CITY OF DIGOS	50,000
	CITY OF PANABO	50,000
	CITY OF TAGUM	50,000
	COMPOSTELA VALLEY	50,000
	DAVAO DEL SUR	410,000
	DAVAO ORIENTAL	308,000
	ISLAND GARDEN CITY OF SAMAL	50,000
	MATI CITY	130,000
	REGIONAL OFFICE	421,000
Total, REGION XI		1,519,000
REGION XII	GENERAL SANTOS CITY	50,000
	KORONADAL CITY	50,000
	KIDAPAWAN CITY	50,000
	NORTH COTABATO	211,000
	SARANGANI	90,000
	SOUTH COTABATO	250,000
	SULTAN KUDARAT	336,000
	TACURONG CITY	89,000
	REGIONAL OFFICE	503,000
Total, REGION XII		1,629,000
CARAGA	AGUSAN DEL NORTE	50,000
	AGUSAN DEL SUR	166,000
	BISLIG CITY	50,000
	BUTUAN CITY	50,000
	CABADBARAN CITY	130,000
	DINAGAT ISLANDS	50,000
	SURIGAO CITY	60,000
	SURIGAO DEL NORTE	133,000
	SURIGAO DEL SUR	216,000
	REGIONAL OFFICE	408,000
Total, CARAGA		1,313,000
Grand Total		32,971,000

WORK AND FINANCIAL PLAN

Attachment 2



Prepared by:

Approved by:

BUB Coordinator

Head of RO/SDO

Conditions, Standard Designs, and Specification per Education Project

Part I: Condition

1. Installation of Water Supply/Connection

Conditions:

- i. Qualified schools are those without existing water source connection only;
- ii. If the LGU has its own local water connection, the LGU should extend the water connection to schools specifically to toilet and faculty rooms for sanitation, handwashing and other purposes through pipe installation; and
- iii. If the LGU has no local water connection, different mode can be installed such as but not limited to installation of deep well, provision of rainwater tanks, and among others.

Note: Fund for this project cannot be used as payment for monthly utility bill.

2. Construction of Faculty Rooms

Conditions:

- i. Schools with buildable space, without excess classroom and existing faculty rooms; and
- ii. The room shall accommodate at least 15 personnel.

3. Construction of School Library and School Clinic

Condition:

- i. Schools with buildable space and without existing school library/ school clinic.

4. School Furniture

Condition:

- i. Schools with shortage of 45 seats and above; and
- ii. Provision of elementary and secondary armchair and teacher's table and chair.

Part II: Standard Designs and Specification for Multipurpose Building (Faculty Rooms, Library and Clinic)

X



1 PERSPECTIVE
A-1

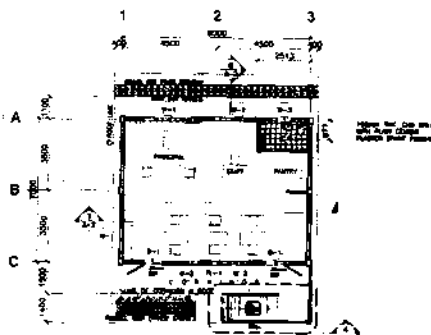
TABLE OF CONTENTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE CITY/MUNICIPAL
ENGINEER/BUILDING OFFICIAL

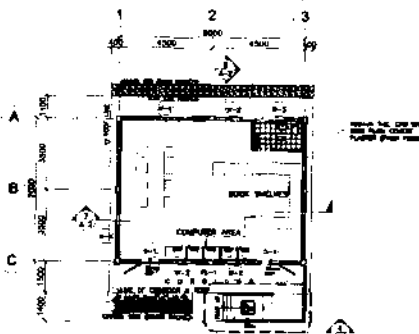
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ARCHITECTURAL	LAND USE & ZONING
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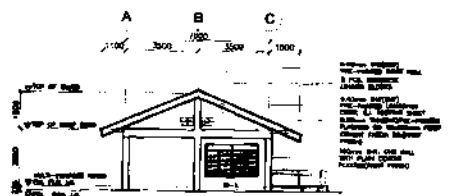
<p>DEPARTMENT OF EDUCATION DIVISION OFFICE - CAGAYAN DE ORO</p>	<p>DESIGNED BY: ANDREW S. CALDER</p>	<p>CHECKED BY: EDWARD S. BERNARD</p>	<p>APPROVED BY: LEO C. PARRERA, Jr.</p>	<p>DATE: 08/15/2018</p>	<p>PROJECT NO: 18-001</p>	<p>PROJECT TITLE: MULTI-PURPOSE ROOM</p>	<p>PROJECT LOCATION: [Blank]</p>	<p>PROJECT OWNER: DEPARTMENT OF EDUCATION</p>	<p>PROJECT NO: [Blank]</p>	<p>PROJECT TITLE: MULTI-PURPOSE ROOM</p>	<p>PROJECT LOCATION: [Blank]</p>	<p>PROJECT OWNER: DEPARTMENT OF EDUCATION</p>	<p>PROJECT NO: [Blank]</p>	<p>PROJECT TITLE: MULTI-PURPOSE ROOM</p>	<p>PROJECT LOCATION: [Blank]</p>	<p>PROJECT OWNER: DEPARTMENT OF EDUCATION</p>
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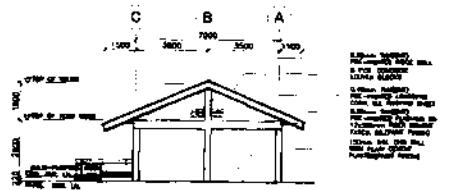
2 PRINCIPAL'S OFFICE & FACULTY ROOM FLOOR PLAN
A-2 SCALE 1/8"=1'-0"



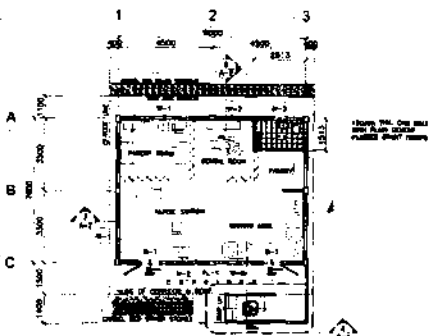
3 SCHOOL LIBRARY FLOOR PLAN
A-2 SCALE 1/8"=1'-0"



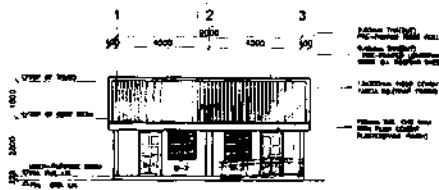
7 LEFT SIDE ELEVATION
A-2 SCALE 1/8"=1'-0"



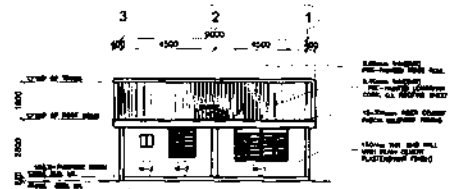
8 RIGHT SIDE ELEVATION
A-2 SCALE 1/8"=1'-0"



1 SCHOOL CLINIC FLOOR PLAN
A-2 SCALE 1/8"=1'-0"



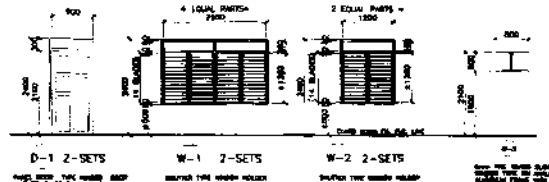
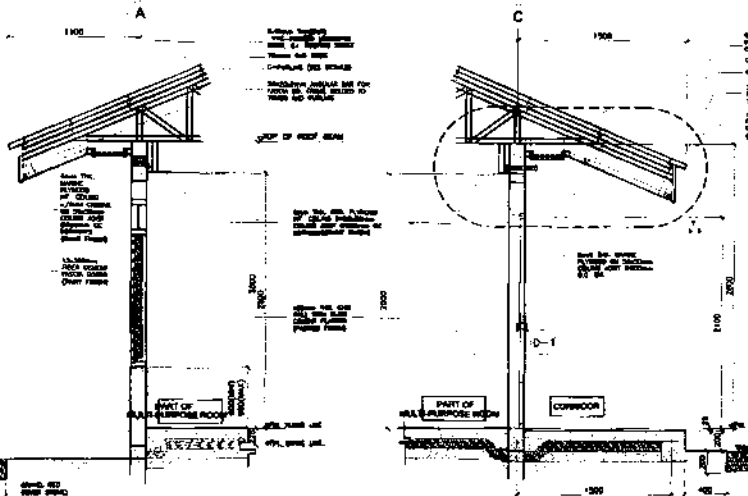
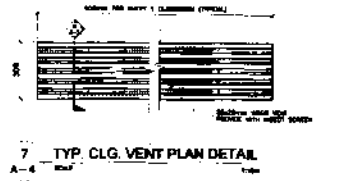
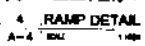
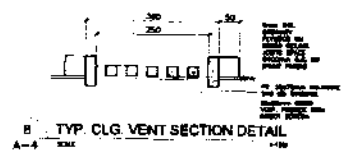
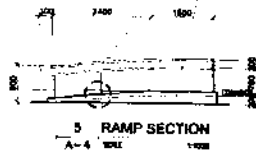
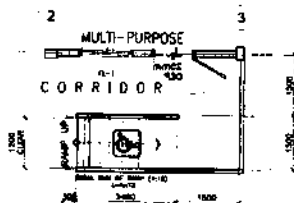
4 FRONT ELEVATION
A-2 SCALE 1/8"=1'-0"



5 REAR ELEVATION
A-2 SCALE 1/8"=1'-0"

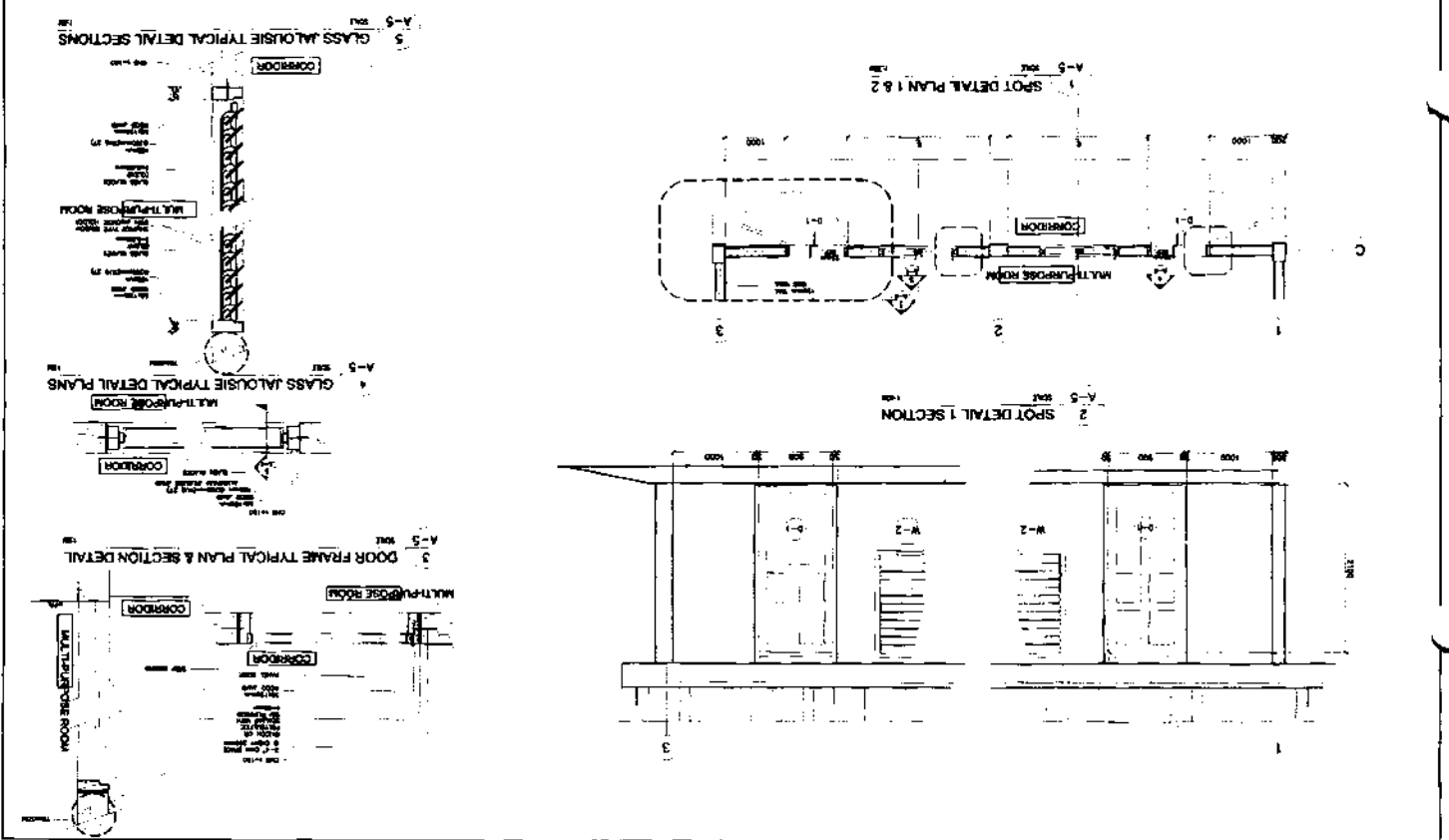
	DESIGNER: JANILSON P. DELA CRUZ <small>REGISTERED ARCHITECT</small>	CHECKER: MINNIEL S. AMOROSO <small>REGISTERED ARCHITECT</small>	CONSULTANT: LUIS G. PUYANZA, JR. <small>REGISTERED ARCHITECT</small>	ARCHITECT: ROSELLE E. PANGILIN <small>REGISTERED ARCHITECT</small>	PROJECT NAME: MULTI-PURPOSE ROOM	PROJECT NO.: 	SHEET NO.: 	DEPARTMENT OF EDUCATION DepED <small>OFFICE OF THE DIVISION SUPERVISOR</small>	SHEET NO.: A-2 6
	<small>NOTE: THIS SET WILL BE FILED IN THE OFFICE OF THE DIVISION SUPERVISOR.</small>								

NOTE: IF THERE WILL BE CHANGE IN THE HEIGHT (H) OF THE FINISH FLOOR LINE (FFL) OF THE BUILDING, THE LENGTH OF THE RAMP SHALL BE COMPUTED AS $L = H \times 1.2$



DEPARTMENT OF EDUCATION DepED OFFICE OF THE SUPERINTENDENT DIVISION OF ARCHITECTURE (MANILA OFFICE)	DESIGNED BY:	ARCHITECT:	ENGINEER:	INSPECTOR:	DATE:	PROJECT NO.:	ROOM NO.:	NO. OF SHEETS:
	AMELIO P. OLLANO	EDUARDO S. BRONKHORST	LEO C. PARRERA, JR.	JOSUELLA B. PANGALAN	1968	100-100000	MULTI-PURPOSE ROOM	6

	PROJECT NO. 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	ARCHITECT ARCHITECT ARCHITECT	ENGINEER ENGINEER ENGINEER	CONTRACTOR CONTRACTOR CONTRACTOR	DATE DATE DATE	SHEET NO. SHEET NO. SHEET NO.
	DEPARTMENT OF EDUCATION DEPARTMENT OF EDUCATION DEPARTMENT OF EDUCATION	MULTIPURPOSE ROOM MULTIPURPOSE ROOM MULTIPURPOSE ROOM	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE



6 A-5	DEPARTMENT OF EDUCATION DEPARTMENT OF EDUCATION DEPARTMENT OF EDUCATION	MULTIPURPOSE ROOM MULTIPURPOSE ROOM MULTIPURPOSE ROOM	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE	10000 W. 10TH AVENUE 10000 W. 10TH AVENUE 10000 W. 10TH AVENUE
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Republic of the Philippines
DEPARTMENT OF EDUCATION
EDUCATION FACILITIES DIVISION

Paig City
N.C.R



PROJECT : PROPOSED 1 STY SCHOOL FACULTY WITH ATTACHED CR
SCHOOL :
LOCATION :
OWNER : DEPARTMENT OF EDUCATION
SUBJECT : APPROVED AGENCY ESTIMATE

LD. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	GENERAL REQUIREMENTS							
	Mobilization/Temporary Structures, Utilities and Services/Demobilization / Standard Billboard / Material Testing	lot	1.00	5,109.91	3,406.61	5,109.91	3,406.61	8,516.52
	Safety and Health	lot	1.00	8,516.52	0.00	8,516.52	0.00	8,516.52
	Hauling cost	lot	1.00	0.00	0.00	0.00	0.00	0.00
	Sub-total							17,033.04
1.00	Earthworks							
1.01	Clearing and Grubbing	sq.m	78.70	0.00	20.00	0.00	1,574.00	1,574.00
1.02	Structural Excavation	cu.m	15.21	0.00	200.00	0.00	3,041.64	3,041.64
1.03	Backfilling and Compaction	cu.m	18.60	0.00	45.00	0.00	837.15	837.15
1.04	Gravel Bedding G-1	cu.m	10.80	956.67	189.80	10,327.29	1,634.06	12,161.36
1.06	Select Fill	cu.m	10.80	150.00	45.00	1,619.26	485.78	2,105.03
1.05	Soil Poisoning	sq.m	86.57	15.00	4.50	1,296.55	389.57	1,686.12
	Sub-total							21,407.28
2.00	Concreting Works							
	Column Footing/Corridor Footing	cu.m	3.10					
2.01	Portland Cement	bag	28.00	234.00	46.40	6,552.00	1,288.17	7,851.17
2.05	Crushed Gravel 1"	cu.m	3.25	956.67	141.58	3,109.18	480.14	3,589.32
2.03	Washed Sand	cu.m	1.75	616.67	141.92	1,079.17	248.35	1,327.53
	Footing Tie Beam	cu.m	3.90					
2.01	Portland Cement	bag	36.00	234.00	46.40	8,424.00	1,670.37	10,094.37
2.02	Crushed Gravel 3/4"	cu.m	4.00	906.67	165.18	3,626.68	660.71	4,287.39
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Columns/Stiffener	cu.m	3.68					
2.01	Portland Cement	bag	34.00	234.00	46.40	7,956.00	1,577.57	9,533.57
2.02	Crushed Gravel 3/4"	cu.m	3.75	906.67	165.18	3,400.01	619.42	4,019.43
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Roof Beams	cu.m	4.79					
2.01	Portland Cement	bag	44.00	234.00	46.40	10,296.00	2,041.56	12,337.56
2.02	Crushed Gravel 3/4"	cu.m	5.00	906.67	165.18	4,533.35	825.89	5,359.24
2.03	Washed Sand	cu.m	2.50	616.67	141.92	1,541.68	354.79	1,896.47
	Slab on Grade/Pantry	cu.m	7.97					
2.01	Portland Cement	bag	72.00	234.00	46.40	16,848.00	3,340.73	20,188.73
2.05	Crushed Gravel 1"	cu.m	8.00	956.67	141.58	7,653.36	1,132.65	8,786.01
2.03	Washed Sand	cu.m	4.00	616.67	141.92	2,466.68	567.67	3,034.35
	Wall Footing(CR)	cu.m	0.40					
2.01	Portland Cement	bag	4.00	234.00	46.40	936.00	185.60	1,121.60
2.05	Crushed Gravel 1"	cu.m	0.50	956.67	141.58	478.34	70.79	549.13
2.03	Washed Sand	cu.m	0.25	616.67	141.92	154.17	35.48	189.65
	Ramp on Fill	cu.m	0.58					
2.01	Portland Cement	bag	6.00	234.00	46.40	1,404.00	278.39	1,682.39
2.05	Crushed Gravel 1"	cu.m	0.75	956.67	141.58	717.50	106.19	823.69
2.03	Washed Sand	cu.m	0.50	616.67	141.92	308.34	70.96	379.29
	Sub-total							100,065.24
3.00	Rebar Works							
	Column Footing/Corridor Footing	kg	222.71					
	Footing Tie Beam	kg	871.97					
	Columns/Stiffener	kg	728.82					
	Roof Beams	kg	861.64					
	Slab on Grade/Pantry	kg	334.49					
	Wall Footing(CR)	kg	13.02					
	Ramp on Fill	kg	28.38					

LD. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
3.01	Deformed Round Bars, Grade 40	kg	2,861.03	40.85	7.60	116,873.00	21,457.71	138,330.71
3.02	G.I. Tie Wire	kg	58.00	60.00	9.00	3,480.00	522.00	4,002.00
	Sub-total							142,332.71
4.00	Formworks							
	Footing Tie Beam	sq.m	25.35					
4.01	Coco Lumber	bd.ft	129.30	17.00	4.25	2,198.10	549.53	2,747.63
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	5.00	345.00	86.25	1,725.00	431.25	2,156.25
4.04	CWN, Assorted	kg	2.00	60.00	15.00	120.00	30.00	150.00
	Columns/Stiffener	sq.m	44.97					
4.01	Coco Lumber	bd.ft	229.50	17.00	4.25	3,901.50	975.38	4,876.88
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	8.00	345.00	86.25	2,760.00	680.00	3,450.00
4.04	CWN, Assorted	kg	4.00	60.00	15.00	240.00	60.00	300.00
	Roof Beams	sq.m	69.89					
4.01	Coco Lumber	bd.ft	357.00	17.00	4.25	6,069.00	1,517.25	7,586.25
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	12.00	345.00	86.25	4,140.00	1,038.00	5,175.00
4.04	CWN, Assorted	kg	5.00	60.00	15.00	300.00	75.00	375.00
	Sub-total							26,817.00
5.00	Masonry Works							
	Masonry Wall	sq.m	114.38					
5.05	CHB 6" thk	pc	1,430.00	14.00	2.64	20,020.00	3,775.20	23,795.20
5.02	Portland Cement	bag	58.00	234.00	46.40	13,572.00	2,691.15	16,263.15
5.03	Washed Sand	cu.m	5.00	616.67	141.92	3,083.35	708.58	3,792.93
5.06	10mm x 6m RSB	kg	236.84	40.85	7.50	9,675.08	1,776.33	11,451.41
5.07	G.I. Tie Wire	kg	5.00	60.00	9.00	300.00	45.00	345.00
	Plestering	sq.m	228.77					
5.02	Portland Cement	bag	76.00	234.00	46.40	17,784.00	3,526.33	21,310.33
5.03	Washed Sand	cu.m	8.00	616.67	141.92	4,933.36	1,135.33	6,068.69
5.08	Concrete Louver Blocks	pc	16.00	30.00	6.80	480.00	105.60	585.60
	Sub-total							83,612.31
6.00	Doors and Windows							
	D-1, Panel Door 0.90m x 2.10m on 50mm x 150mm Wooden Jamb and fixed glass transom with keyed lever type lockset	set	2.00	7,817.50	1,016.28	15,635.00	2,032.55	17,667.55
6.03								
	D-3 Flush Door 0.60m x 2.10m on 150mm Wooden Jamb complete with Accessories	set	1.00	3,367.50	487.13	3,367.50	487.13	3,854.63
6.46								
	W-1, (2.6 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	1.00	10,188.00	1,324.44	10,188.00	1,324.44	11,512.44
6.07								
	W-2, (1.3 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	2.00	5,072.00	659.38	10,144.00	1,318.72	11,462.72
6.45								
	W-3, (0.5 x 0.8 m) Steel Awning Window with Grilles with 1/4 thk Clear Glass Panes complete with Accessories	set	1.00	833.33	208.33	833.33	208.33	1,041.66
6.54								
	Sub-total							46,639.00
7.00	Steel Works							
7.02	C-Channel 5mm thk	kg	397.39	38.90	8.44	15,458.36	3,353.95	18,812.31
7.01	L 75 x 75 x 6mm	kg	78.59	38.90	8.24	3,057.23	647.55	3,704.78
7.08	LC 255 x 90 x 25 x 3.0mm	kg	253.87	34.50	6.63	8,758.48	2,189.62	10,948.10
7.07	LC 150 x 65 x 20 x 2.0mm	kg	1,135.78	34.50	6.63	39,184.44	9,796.11	48,980.55
7.11	L 100 x 100 x 6mm	kg	224.41	32.97	8.24	7,398.79	1,849.00	9,247.79
7.12	L 65 x 65 x 6mm	kg	229.55	32.97	8.24	7,568.34	1,892.07	9,460.42
7.14	L 50 x 50 x 6mm	kg	126.28	32.87	8.24	4,163.60	1,040.89	5,204.49
7.13	L 50 x 50 x 5mm	kg	33.88	32.97	8.24	1,117.01	279.25	1,396.27
7.32	12mmØ Sag Rods with Standard Nuts and Washers	pc	9.00	200.00	16.25	1,800.00	146.25	1,946.25
7.20	Plain Round Bar 16mmØ x 6m	pc	8.00	386.83	71.50	3,094.64	572.00	3,666.64
7.31	Turn Buckle 16 mmØ	pc	16.00	80.00	20.00	1,280.00	320.00	1,600.00
7.24	Steel Plate 1.20m x 2.40m x 12mm thk	pc	0.25	10,500.00	2,100.00	2,625.00	525.00	3,150.00
7.30	Machine Bolts (6 mm dia.)	pc	66.00	25.00	5.50	1,650.00	363.00	2,013.00
7.25	Gusset Plate 1.20m x 2.40m x 10mm thk	pc	0.75	8,300.00	2,790.00	6,959.07	2,087.72	9,046.79
7.27	Gusset Plate 1.20m x 2.40m x 6mm thk	pc	0.25	8,650.00	2,595.00	2,162.50	648.75	2,811.25

LD. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
7.33	Anchor Bolt with Nuts and Washer, 16mm \varnothing x 50mm x 300mm	pc	16.00	45.00	11.25	720.00	180.00	900.00
7.34	Anchor Bolt with Nuts and Washer, 12mm \varnothing x 50mm x 150mm	pc	104.00	27.00	6.75	2,808.00	702.00	3,510.00
7.44	G.I. Pipe 1-1/2" \varnothing Sch 40	pc	2.00	1,170.00	351.00	2,340.00	702.00	3,042.00
7.46	Welding Rod	kg	50.00	67.00	16.75	3,350.00	837.50	4,187.50
	Sub-total							143,628.12
8.00	Roofing Works							
8.16	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm thk	m	119.24	483.17	74.67	57,813.19	8,903.25	66,516.44
8.17	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	5.00	559.55	96.50	2,797.75	482.50	3,280.25
8.19	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	10.00	598.57	96.50	5,985.70	965.00	6,950.70
8.35	J-Bolt (6mm dia.)	pc	829.00	8.50	0.36	7,046.50	298.44	7,344.94
8.36	Roof Sealant	L	2.00	300.00	59.95	600.00	119.90	719.90
	Sub-total							84,812.23
9.00	Ceiling and Carpentry Works							
	Interior and Exterior Ceiling	sq.m	88.17					
9.17	Metal Carrying Channel (12mm x 38mm x 5m x .8mm thk)	pc	19.00	125.00	61.38	2,375.00	1,166.22	3,541.22
9.09	Fiber Cement Ceiling Board (4.5mm thk)	pc	34.00	540.00	118.80	18,380.00	4,039.20	22,399.20
9.18	Metal Double Furring Channel (19mm x 50mm x 5mm x 0.5mm thk)	pc	34.00	135.00	71.50	4,590.00	2,431.00	7,021.00
9.32	Wall Angle 1" x 1" x 10'	pc	22.00	80.00	19.80	1,980.00	435.60	2,415.60
9.20	W Clip	pc	158.00	5.00	1.50	790.00	237.00	1,027.00
9.21	Suspension Clip and Rod Joiner	pc	81.00	135.00	40.50	10,935.00	3,280.50	14,215.50
9.26	Steel Angle	pc	79.00	48.00	4.40	3,634.00	347.60	3,981.60
9.33	Suspension Rod #8	kg	89.00	30.00	31.90	2,670.00	2,839.10	5,509.10
8.37	Blind Rivets	pc	330.00	1.35	0.27	445.50	89.10	534.60
9.18	Concrete Nail #3	kg	1.00	70.00	7.92	70.00	7.92	77.92
9.27	Wooden Ceiling Ventilation (25mm x 25mm x 300mm with Wire Mesh)	pc	4.00	260.00	7.15	1,040.00	26.60	1,068.60
	Sub-total							61,781.34
10.00	Electrical Works							
	Roughing-ins							
10.01	Electrical Conduit uPVC, 15mm \varnothing	pc	22.00	50.00	10.00	1,100.00	220.00	1,320.00
10.06	RSC 20mm \varnothing	pc	1.00	112.50	22.50	112.50	22.50	135.00
10.34	Entrance Cap 20mm dia.	pc	1.00	50.00	10.00	50.00	10.00	60.00
10.16	Junction Box, 4" x 4" G.I.	pc	7.00	15.00	3.00	105.00	21.00	126.00
10.17	Utility Box, 2" x 4" G.I.	pc	5.00	30.00	6.00	150.00	30.00	180.00
10.37	Grounding Rod, 2.4m x 16mm dia.	pc	1.00	150.00	30.00	150.00	30.00	180.00
	Wires & Fixtures							
10.11	3.5 mm ² THW Wire, Stranded	m	198.00	33.00	6.60	6,534.00	1,306.80	7,840.80
10.12	5.5 mm ² THW Wire, Stranded	m	10.00	50.50	10.10	505.00	101.00	606.00
10.28	Duplex C.O. with Plate	pc	4.00	263.80	52.76	1,055.20	211.04	1,266.24
10.25	2-Gang Switch with Plate	pc	1.00	208.00	41.60	208.00	41.60	249.60
10.23	Single Switch with Plate	pc	2.00	97.88	19.54	195.36	39.07	234.43
10.18	FL 2 x 36W Fluorescent Lighting Fixture (Box Type - Surfaced Ceiling Mounted)	set	6.00	2,600.00	520.00	15,600.00	3,120.00	18,720.00
10.19	18W Compact Fluorescent Lighting Fixture with Medium keyless type Porcelain Receptacle (surfaced Ceiling Mounted)	set	2.00	215.00	236.90	430.00	473.80	903.80
10.53	Incandescent Bulb 50W	set	1.00	35.00	5.25	35.00	5.25	40.25
10.33	Ceiling Receptacle 3-1/2" \varnothing	pc	1.00	25.00	5.00	25.00	5.00	30.00
10.48	Panel Box, Flush Type, 4 Branches	set	1.00	1,202.75	180.41	1,202.75	180.41	1,383.16
10.40	Circuit Breaker, 40A 2P	set	1.00	441.00	62.60	441.00	62.60	503.60
10.38	Circuit Breaker, 20A 2P	set	3.00	313.00	62.60	939.00	187.80	1,126.80
10.59	Wall Fan (Standard/Any Equivalent)	set	2.00	1,500.00	150.00	3,000.00	300.00	3,300.00
10.58	Electrical Tape	pc	3.00	37.50	5.63	112.50	16.88	129.39
	Sub-total							38,335.06
11.00	Plumbing Works							
11.62	Water Closet 1.6gpf with Accessories	set	1.00	5,500.00	825.00	5,500.00	825.00	6,325.00
11.70	Faucet, Lavatory	set	1.00	800.00	120.00	800.00	120.00	920.00
11.71	Faucet, Sink	set	1.00	1,250.00	187.50	1,250.00	187.50	1,437.50
11.61	Water Closet Flange	set	1.00	262.50	39.38	262.50	39.38	301.88
11.67	Tissue Holder	pc	1.00	250.00	37.50	250.00	37.50	287.50
11.08	PP-R Pipe 1/2" \varnothing	pc	6.00	217.00	65.10	1,302.00	390.60	1,692.60
11.08	PP-R Coupling, 1/2" \varnothing	pc	4.00	9.00	2.70	36.00	10.80	46.80
11.21	PP-R Elbow 90o x 1/2" \varnothing	pc	6.00	14.00	4.20	84.00	25.20	109.20

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
11.15	PP-R Tee, 1/2"Ø	pc	3.00	17.00	5.10	51.00	15.30	66.30
11.65	S.S.Floor Drain 4" x 4"	pc	2.00	97.50	14.83	195.00	29.25	224.25
11.45	Gate Valve, 3/4"Ø	pc	2.00	320.00	96.00	640.00	192.00	832.00
11.44	Gate Valve, 1/2"Ø	pc	2.00	250.00	75.00	500.00	150.00	650.00
11.69	Mirror	sq.ft	8.00	100.00	15.00	800.00	120.00	920.00
	Sub-total							13,813.83
12.00	Sanitary Works							
12.32a	Septic Vault	unit	1.00	25,733.88	11,768.34	25,733.88	11,768.34	37,502.22
12.09	uPVC Sanitary Pipe 4"Ø	pc	4.00	560.00	168.00	2,240.00	672.00	2,912.00
12.13	uPVC Elbow 90o x 4"Ø	pc	2.00	96.00	28.80	192.00	57.60	249.60
12.25	uPVC Wye 4" x 2"	pc	2.00	97.00	29.10	194.00	58.20	252.20
12.27	uPVC Wye 4" x 4"	pc	2.00	165.00	48.50	330.00	99.00	429.00
12.28	Brass Cleanout 4" x 4"	pc	2.00	350.00	105.00	700.00	210.00	910.00
12.07	uPVC Sanitary Pipe 2"Ø	pc	4.00	210.00	63.00	840.00	252.00	1,092.00
12.11	uPVC Elbow 90o x 2"Ø	pc	2.00	25.00	7.50	50.00	15.00	65.00
12.14	uPVC Elbow 1/8 x 2"Ø	pc	2.00	20.50	6.15	41.00	12.30	53.30
12.17	uPVC Tee 2" x 2"	pc	2.00	36.00	10.80	72.00	21.60	93.60
12.30	uPVC P-Trap 2"	pc	2.00	66.00	19.80	132.00	38.60	171.60
12.33	PVC Cement	can	3.00	150.00	45.00	450.00	135.00	585.00
	Sub-total							44,318.62
13.00	Painting Works							
	Concrete surfaces	sq.m	226.77					
13.18	Neutralizer	gal	3.00	145.20	43.56	435.60	130.68	566.26
13.01	Latex, Flat	gal	10.00	466.40	139.92	4,664.00	1,399.20	6,063.20
13.14	Masonry Putty	gal	10.00	350.90	105.27	3,509.00	1,052.70	4,561.70
13.02	Latex, Semi Gloss	gal	10.00	541.75	162.53	5,417.50	1,625.25	7,042.75
13.20	Acri Color	qrt	3.00	181.50	54.45	544.50	163.35	707.85
	Wood surfaces	sq.m	103.37					
13.04	Enamel, Flatwall	gal	6.00	531.30	159.39	3,187.80	956.34	4,144.14
13.15	Glazing Putty	gal	6.00	541.20	162.36	3,247.20	974.16	4,221.36
13.05	Enamel, Semi Gloss	gal	6.00	546.70	164.01	3,280.20	984.06	4,264.26
13.16	Paint Thinner	gal	3.00	288.00	85.80	858.00	257.40	1,115.40
	Steel Surfaces	sq.m	106.23					
13.12	Primer, Zinc Chromate	gal	6.00	590.70	177.21	3,544.20	1,063.26	4,607.46
	Sub-total							37,294.40
14.00	Tile Works							
	Wall	sq.m	10.78					
14.04	Glazed Wall Tiles 20cm x 20cm	pc	270.00	14.00	4.20	3,780.00	1,134.00	4,914.00
14.16	Tile Adhesive 25 kg/bag	bag	2.00	224.10	67.23	448.20	134.46	582.66
14.15	Tile Grout 5 kg/bag	bag	1.00	150.00	45.00	150.00	45.00	195.00
	Flooring	sq.m	3.75					
14.04	Glazed Wall Tiles 20cm x 20cm	pc	94.00	14.00	4.20	1,316.00	394.80	1,710.80
14.16	Tile Adhesive 25 kg/bag	bag	1.00	224.10	67.23	224.10	67.23	291.33
14.15	Tile Grout 5 kg/bag	bag	1.00	150.00	45.00	150.00	45.00	195.00
	Sub-total							7,888.79
I.	MATERIALS (VAT inclusive)							708,424.96
II.	LABOR							180,250.10
III.	DIRECT COST (I + II)							888,685.06
IV.	INDIRECT COST 22% of (III)							197,363.44
V.	TAX 5% of (III + IV)							62,802.43
VI.	TOTAL CONSTRUCTION COST (III + IV + V)							1,108,850.93
VII.	ENGINEERING OVERHEAD 1% of (VI)							11,088.51
VIII.	TOTAL PROJECT COST (VI + VII)							PhP1,119,939.44
								PhP1,120,000.00

Prepared by:

Recommending Approval:

Approved:



Republic of the Philippines
DEPARTMENT OF EDUCATION
EDUCATION FACILITIES DIVISION

Pasig City
 N.C.R



PROJECT : PROPOSED 1 STY SCHOOL LIBRARY
 SCHOOL :
 LOCATION :
 OWNER : DEPARTMENT OF EDUCATION
 SUBJECT : APPROVED AGENCY ESTIMATE

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
GENERAL REQUIREMENTS								
	Mobilization/Temporary Structures, Utilities and Services/Demobilization / Standard Billboard / Material Testing	lot	1.00	4,663.75	3,109.17	4,663.75	3,109.17	7,772.92
	Safety and Health	lot	1.00	7,772.92	0.00	7,772.92	0.00	7,772.92
	Hauling cost	lot	1.00	0.00	0.00	0.00	0.00	0.00
	Sub-total							16,546.84
1.00	Earthworks							
1.01	Clearing and Grubbing	sq.m	99.66	0.00	20.00	0.00	1,993.60	1,993.60
1.02	Structural Excavation	cu.m	14.40	0.00	200.00	0.00	2,880.60	2,880.60
1.03	Backfilling and Compaction	cu.m	18.60	0.00	45.00	0.00	836.91	836.91
1.04	Gravel Bedding G-1	cu.m	10.80	956.67	169.90	10,327.29	1,634.06	12,161.36
1.06	Select Fill	cu.m	10.80	150.00	45.00	1,619.26	485.78	2,105.03
1.05	Soil Poisoning	sq.m	109.65	15.00	4.50	1,644.72	483.42	2,138.14
	Sub-total							22,116.63
2.00	Concreting Works							
	Column Footing/Corridor Footing	cu.m	2.70					
2.01	Portland Cement	bag	25.00	234.00	46.40	5,850.00	1,159.98	7,009.98
2.05	Crushed Gravel 1"	cu.m	2.75	956.67	141.58	2,630.84	389.35	3,020.19
2.03	Washed Sand	cu.m	1.50	616.67	141.92	925.01	212.88	1,137.88
	Footing Tie Beam	cu.m	3.90					
2.01	Portland Cement	bag	36.00	234.00	46.40	8,424.00	1,670.37	10,094.37
2.02	Crushed Gravel 3/4"	cu.m	4.00	906.67	163.18	3,626.68	660.71	4,287.39
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Columns/Stiffener	cu.m	3.69					
2.01	Portland Cement	bag	34.00	234.00	46.40	7,956.00	1,577.57	9,533.57
2.02	Crushed Gravel 3/4"	cu.m	3.75	906.67	165.16	3,400.01	619.42	4,019.43
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Roof Beams	cu.m	4.79					
2.01	Portland Cement	bag	44.00	234.00	46.40	10,296.00	2,041.56	12,337.56
2.02	Crushed Gravel 3/4"	cu.m	5.00	906.67	165.18	4,533.35	825.89	5,359.24
2.03	Washed Sand	cu.m	2.50	616.67	141.92	1,541.66	354.79	1,896.47
	Slab on Grade	cu.m	7.85					
2.01	Portland Cement	bag	69.00	234.00	46.40	16,146.00	3,201.54	19,347.54
2.05	Crushed Gravel 1"	cu.m	7.75	956.67	141.58	7,414.19	1,097.28	8,511.45
2.03	Washed Sand	cu.m	4.00	616.67	141.92	2,466.68	567.67	3,034.35
	Ramp on Fill	cu.m	0.51					
2.01	Portland Cement	bag	5.00	234.00	46.40	1,170.00	232.00	1,402.00
2.05	Crushed Gravel 1"	cu.m	0.75	956.67	141.58	717.50	106.19	823.69
2.03	Washed Sand	cu.m	0.50	616.67	141.92	308.34	70.96	379.29
	Sub-total							96,228.74
3.00	Rebar Works							
	Column Footing/Corridor Footing	kg	222.71					
	Footing Tie Beam	kg	671.97					
	Columns/Stiffener	kg	728.82					
	Roof Beams	kg	861.64					
	Slab on Grade	kg	330.77					
	Ramp on Fill	kg	28.38					
3.01	Deformed Round Bars, Grade 40	kg	2,844.29	40.85	7.50	116,189.17	21,332.16	137,521.33
3.02	G.I. Tie Wire	kg	57.00	60.00	9.00	3,420.00	513.00	3,933.00
	Sub-total							141,464.33
4.00	Formworks							
	Footing Tie Beam	sq.m	25.35					
4.01	Coco Lumber	bd.ft	129.30	17.00	4.25	2,198.10	549.53	2,747.63
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	5.00	345.00	86.25	1,725.00	431.25	2,156.25
4.04	CWN, Assorted	kg	2.00	60.00	15.00	120.00	30.00	150.00

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	Columns/Stiffener	sq.m	44.97					
4.01	Coco Lumber	bd.ft	229.50	17.00	4.25	3,901.50	875.38	4,876.88
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	8.00	345.00	86.25	2,760.00	690.00	3,450.00
4.04	CWN, Assorted	kg	4.00	80.00	15.00	240.00	80.00	300.00
	Roof Beams	sq.m	68.99					
4.01	Coco Lumber	bd.ft	357.00	17.00	4.25	6,089.00	1,517.25	7,586.25
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	12.00	345.00	86.25	4,140.00	1,035.00	5,175.00
4.04	CWN, Assorted	kg	5.00	80.00	15.00	300.00	75.00	375.00
	Sub-total							26,817.00
5.00	Masonry Works							
	Masonry Wall	sq.m	104.23					
5.05	CHB 6" thk	pc	1,303.00	14.00	2.64	18,242.00	3,439.92	21,681.92
5.02	Portland Cement	bag	53.00	234.00	46.40	12,402.00	2,459.15	14,861.15
5.03	Washed Sand	cu.m	5.00	816.67	141.92	3,083.35	709.58	3,792.93
5.06	10mm x 6m RSB	kg	220.84	40.85	7.50	9,021.48	1,856.33	10,677.81
5.07	G.I. Tie Wire	kg	5.00	80.00	9.00	300.00	45.00	345.00
	Plastering	sq.m	212.45					
5.02	Portland Cement	bag	71.00	234.00	46.40	16,614.00	3,294.33	19,908.33
5.03	Washed Sand	cu.m	8.00	816.67	141.92	4,833.36	1,135.33	6,068.69
5.08	Concrete Louver Blocks	pc	16.00	30.00	6.60	480.00	105.60	585.60
	Sub-total							77,921.44
6.00	Doors and Windows							
	D-1, Panel Door 0.90m x 2.10m on 50mm x 150mm Wooden Jamb and fixed glass transom with keyed lever type lockset	set	2.00	7,817.50	1,016.28	15,635.00	2,032.55	17,667.55
6.03								
	W -1. (2.6 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	2.00	10,188.00	1,324.44	20,376.00	2,848.88	23,024.88
6.07								
	W -2. (1.3 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	2.00	5,072.00	659.36	10,144.00	1,318.72	11,462.72
6.48								
	Sub-total							52,166.16
7.00	Steel Works							
7.02	C-Channel 5mm thk	kg	397.39	38.90	8.44	15,458.36	3,353.95	18,812.31
7.01	L 75 x 75 x 6mm	kg	78.59	38.90	8.24	3,057.23	647.55	3,704.78
7.09	LC 265 x 80 x 25 x 3.0mm	kg	253.87	34.50	8.63	8,758.48	2,189.62	10,948.10
7.07	LC 150 x 65 x 20 x 2.0mm	kg	1,135.78	34.50	8.63	39,184.44	9,796.11	48,980.55
7.11	L 100 x 100 x 6mm	kg	224.41	32.97	8.24	7,398.79	1,849.00	9,247.79
7.12	L 85 x 65 x 6mm	kg	229.55	32.97	8.24	7,588.34	1,892.07	9,480.42
7.14	L 50 x 50 x 6mm	kg	126.28	32.97	8.24	4,163.60	1,040.89	5,204.49
7.13	L 50 x 50 x 5mm	kg	33.88	32.97	8.24	1,117.01	279.25	1,396.27
7.32	12mmØ Sag Rods with Standard Nuts and Washers	pc	9.00	200.00	16.25	1,800.00	146.25	1,946.25
7.20	Plain Round Bar 18mmØ x 6m	pc	8.00	388.63	71.50	3,094.64	572.00	3,666.64
7.31	Turn Buckle 16 mmØ	pc	16.00	80.00	20.00	1,280.00	320.00	1,600.00
7.24	Steel Plate 1.20m x 2.40m x 12mm thk	pc	0.25	10,500.00	2,100.00	2,625.00	525.00	3,150.00
7.30	Machine Bolts (6 mm dia.)	pc	66.00	25.00	5.50	1,650.00	363.00	2,013.00
7.25	Gusset Plate 1.20m x 2.40m x 10mm thk	pc	0.75	9,300.00	2,780.00	6,959.07	2,087.72	9,046.79
7.27	Gusset Plate 1.20m x 2.40m x 6mm thk	pc	0.25	8,650.00	2,595.00	2,152.50	848.76	2,811.25
7.33	Anchor Bolt with Nuts and Washer, 18mmØ x 50mm x 300mm	pc	16.00	45.00	11.25	720.00	180.00	900.00
7.34	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	104.00	27.00	6.75	2,808.00	702.00	3,510.00
7.44	G.I. Pipe 1-1/2"Ø Sch 40	pc	2.00	1,170.00	351.00	2,340.00	702.00	3,042.00
7.46	Welding Rod	kg	50.00	87.00	16.75	3,350.00	837.50	4,187.50
	Sub-total							143,628.12
8.00	Roofing Works							
8.16	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm thk	m	119.24	483.17	74.67	57,613.19	8,903.25	66,516.44
8.17	G.I. Ridge Roll, Pretorried, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	5.00	559.55	96.50	2,797.75	482.50	3,280.25
8.19	G.I. Flashing, Pretorried, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	10.00	598.57	96.50	5,985.70	965.00	6,950.70
8.35	J-Bolt (6mm dia.)	pc	829.00	8.50	0.36	7,046.50	298.44	7,344.94
8.36	Roof Sealant	L	2.00	300.00	59.95	600.00	119.90	719.90
	Sub-total							84,812.23
9.00	Ceiling and Carpentry Works							
	Interior and Exterior Ceiling	sq.m	95.97					

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
9.17	Metal Carrying Channel (12mm x 38mm x 5ft x .8mm thk)	pc	19.00	125.00	61.38	2,375.00	1,166.22	3,541.22
9.09	Fiber Cement Ceiling Board (4.5mm thk)	pc	33.00	540.00	118.80	17,820.00	3,920.40	21,740.40
9.18	Metal Double Furring Channel (19mm x 50mm x 5mm x 0.6mm thk)	pc	33.00	135.00	71.50	4,455.00	2,359.50	6,814.50
9.32	Wall Angle 1" x 1" x 10'	pc	22.00	90.00	19.80	1,980.00	435.60	2,415.60
9.20	W Clip	pc	154.00	5.00	1.50	770.00	231.00	1,001.00
9.21	Suspension Clip and Rod Joiner	pc	79.00	135.00	40.50	10,855.00	3,199.50	13,854.50
9.26	Steel Angle	pc	79.00	46.00	4.40	3,634.00	347.80	3,981.80
9.33	Suspension Rod #8	kg	87.00	30.00	31.90	2,810.00	2,775.30	5,385.30
8.37	Blind Rivets	pc	323.00	1.35	0.27	438.05	87.21	523.26
9.16	Concrete Nail #3	kg	1.00	70.00	7.92	70.00	7.92	77.92
9.27	Wooden Ceiling Ventilation (25mm x 25mm x 300mm with Wire Mesh)	pc	4.00	260.00	7.15	1,040.00	28.60	1,068.60
	Sub-total							60,413.90
10.00	Electrical Works							
	Roughing-ins							
10.01	Electrical Conduit uPVC, 15mmØ	pc	20.00	50.00	10.00	1,000.00	200.00	1,200.00
10.06	RSC 20mmØ	pc	1.00	112.50	22.50	112.50	22.50	135.00
10.34	Entrance Cap 20mm dia.	pc	1.00	50.00	10.00	50.00	10.00	60.00
10.16	Junction Box, 4" x 4" G.I.	pc	6.00	15.00	3.00	90.00	18.00	108.00
10.17	Utility Box, 2" x 4" G.I.	pc	4.00	30.00	6.00	120.00	24.00	144.00
10.37	Grounding Rod, 2.4m x 16mm dia	pc	1.00	150.00	30.00	150.00	30.00	180.00
	Wires & Fixtures							
10.11	3.5 mm ² THW Wire, Stranded	m	180.00	33.00	6.60	5,940.00	1,188.00	7,128.00
10.12	5.5 mm ² THW Wire, Stranded	m	10.00	50.50	10.10	505.00	101.00	606.00
10.28	Duplex C.O. with Plate	pc	4.00	263.80	52.78	1,055.20	211.04	1,286.24
10.25	2-Gang Switch with Plate	pc	1.00	208.00	41.60	208.00	41.60	249.60
10.23	Single Switch with Plate	pc	1.00	87.68	19.54	87.68	19.54	117.22
10.18	FL 2 x 36W Fluorescent Lighting Fixture (Box Type - Surfaced Ceiling Mounted)	set	6.00	2,800.00	520.00	16,600.00	3,120.00	18,720.00
10.19	18W Compact Fluorescent Lighting Fixture with Medium keyless type Porcelain Receptacle (surfaced Ceiling Mounted)	set	2.00	215.00	236.90	430.00	473.80	903.80
10.46	Panel Box, Flush Type, 4 Branches	set	1.00	1,202.75	180.41	1,202.75	180.41	1,383.16
10.40	Circuit Breaker, 40A 2P	set	1.00	441.00	62.60	441.00	62.60	503.60
10.38	Circuit Breaker, 20A 2P	set	3.00	313.00	62.60	939.00	187.80	1,126.80
10.56	Wall Fan (Standard/Any Equivalent)	set	2.00	1,500.00	150.00	3,000.00	300.00	3,300.00
10.58	Electrical Tape	pc	2.00	37.50	5.63	75.00	11.25	86.25
	Sub-total							37,217.67
13.00	Painting Works							
	Concrete surfaces	sq.m	212.45					
13.18	Neutralizer	gal	3.00	145.20	43.56	435.60	130.68	566.28
13.01	Latex, Flat	gal	9.00	466.40	139.92	4,197.60	1,259.28	5,456.68
13.14	Masonry Putty	gal	9.00	350.90	105.27	3,158.10	947.43	4,105.53
13.02	Latex, Semi Gloss	gal	9.00	541.75	162.53	4,875.75	1,462.73	6,338.48
13.20	Acri Color	qtr	3.00	181.50	54.45	544.50	163.35	707.85
	Wood surfaces	sq.m	101.17					
13.04	Enamel, Flatwal	gal	6.00	531.30	159.39	3,187.80	956.34	4,144.14
13.15	Glazing Putty	gal	6.00	541.20	162.36	3,247.20	974.16	4,221.36
13.05	Enamel, Semi Gloss	gal	6.00	546.70	164.01	3,280.20	984.06	4,264.26
13.16	Paint Thinner	gal	3.00	286.00	85.80	858.00	257.40	1,115.40
	Steel Surfaces	sq.m	106.23					
13.12	Primer, Zinc Chromate	gal	6.00	590.70	177.21	3,544.20	1,063.26	4,607.46
	Sub-total							36,627.64
I.	MATERIALS (VAT inclusive)							861,933.66
II.	LABOR							140,904.11
III.	DIRECT COST (I + II)							792,637.66
IV.	INDIRECT COST 22% of (III)							171,004.21
V.	TAX 5% of (III + IV)							48,192.09
VI.	TOTAL CONSTRUCTION COST (III + IV + V)							1,012,033.96
VII.	ENGINEERING OVERHEAD 1% of (VI)							10,120.34
VIII.	TOTAL PROJECT COST (VI + VII)							PhP1,022,154.32
								PhP1,023,000.00

Prepared by:

Recommending Approval:

Approved:



Republic of the Philippines
DEPARTMENT OF EDUCATION
 EDUCATION FACILITIES DIVISION

Pasig City
 N.C.R



PROJECT : PROPOSED 1 STY SCHOOL CLINIC WITH ATTACHED CR
 SCHOOL :
 LOCATION :
 OWNER : DEPARTMENT OF EDUCATION
 SUBJECT : APPROVED AGENCY ESTIMATE

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
GENERAL REQUIREMENTS								
	Mobilization/Temporary Structures, Utilities and Services/Demobilization / Standard Billboard / Material Testing	lot	1.00	5,109.91	3,406.61	5,109.91	3,406.61	8,516.52
	Safety and Health	lot	1.00	8,516.52	0.00	8,516.52	0.00	8,516.52
	Hauling cost	lot	1.00	0.00	0.00	0.00	0.00	0.00
	Sub-total							17,033.04
1.00	Earthworks							
1.01	Clearing and Grubbing	sq.m	78.70	0.00	20.00	0.00	1,574.00	1,574.00
1.02	Structural Excavation	cu.m	15.21	0.00	200.00	0.00	3,041.64	3,041.64
1.03	Backfilling and Compaction	cu.m	18.60	0.00	45.00	0.00	837.15	837.15
1.04	Gravel Bedding G-1	cu.m	10.80	956.67	169.90	10,327.29	1,834.06	12,161.35
1.06	Select Fill	cu.m	10.80	150.00	45.00	1,619.26	485.78	2,105.03
1.05	Soil Poisoning	sq.m	86.57	15.00	4.50	1,298.55	369.57	1,668.12
	Sub-total							21,407.26
2.00	Concreting Works							
	Column Footing/Corridor Footing	cu.m	3.10					
2.01	Portland Cement	bag	28.00	234.00	46.40	6,552.00	1,299.17	7,851.17
2.05	Crushed Gravel 1"	cu.m	3.25	956.67	141.58	3,109.18	460.14	3,569.32
2.03	Washed Sand	cu.m	1.75	616.67	141.92	1,079.17	248.35	1,327.53
	Footing Tie Beam	cu.m	3.90					
2.01	Portland Cement	bag	36.00	234.00	46.40	8,424.00	1,670.37	10,094.37
2.02	Crushed Gravel 3/4"	cu.m	4.00	908.67	185.18	3,626.68	660.71	4,287.39
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Columns/Stiffener	cu.m	3.69					
2.01	Portland Cement	bag	34.00	234.00	46.40	7,956.00	1,577.57	9,533.57
2.02	Crushed Gravel 3/4"	cu.m	3.75	908.67	185.18	3,400.01	619.42	4,019.43
2.03	Washed Sand	cu.m	2.00	616.67	141.92	1,233.34	283.83	1,517.17
	Roof Beams	cu.m	4.79					
2.01	Portland Cement	bag	44.00	234.00	46.40	10,296.00	2,041.56	12,337.56
2.02	Crushed Gravel 3/4"	cu.m	5.00	908.67	185.18	4,533.35	825.89	5,359.24
2.03	Washed Sand	cu.m	2.50	616.67	141.92	1,541.88	354.79	1,896.47
	Slab on Grade/Pantry	cu.m	7.97					
2.01	Portland Cement	bag	72.00	234.00	46.40	16,848.00	3,340.73	20,188.73
2.05	Crushed Gravel 1"	cu.m	8.00	956.67	141.58	7,653.36	1,132.65	8,786.01
2.03	Washed Sand	cu.m	4.00	616.67	141.92	2,466.68	567.67	3,034.35
	Wall Footing(CR)	cu.m	0.40					
2.01	Portland Cement	bag	4.00	234.00	46.40	936.00	185.60	1,121.60
2.05	Crushed Gravel 1"	cu.m	0.50	956.67	141.58	478.34	70.79	549.13
2.03	Washed Sand	cu.m	0.25	616.67	141.92	154.17	35.48	189.65
	Ramp on Fill	cu.m	0.58					
2.01	Portland Cement	bag	6.00	234.00	46.40	1,404.00	278.39	1,682.39
2.05	Crushed Gravel 1"	cu.m	0.75	956.67	141.58	717.50	106.19	823.69
2.03	Washed Sand	cu.m	0.50	616.67	141.92	308.34	70.96	379.29
	Sub-total							100,066.24
3.00	Rebar Works							
	Column Footing/Corridor Footing	kg	222.71					
	Footing Tie Beam	kg	671.97					
	Columns/Stiffener	kg	728.82					
	Roof Beams	kg	861.64					
	Slab on Grade/Pantry	kg	334.49					
	Wall Footing(CR)	kg	13.02					
	Ramp on Fill	kg	28.38					

LD. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
3.01	Deformed Round Bars, Grade 40	kg	2,861.03	40.85	7.50	116,873.00	21,457.71	138,330.71
3.02	G.I. Tie Wire	kg	58.00	60.00	9.00	3,480.00	522.00	4,002.00
	Sub-total							142,332.71
4.00	Formworks							
	Footing Tie Beam	sq.m	25.35					
4.01	Coco Lumber	bd.ft	129.30	17.00	4.25	2,198.10	549.53	2,747.63
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	5.00	345.00	86.25	1,725.00	431.25	2,156.25
4.04	CWN, Assorted	kg	2.00	80.00	15.00	120.00	30.00	150.00
	Columns/Stiffener	sq.m	44.97					
4.01	Coco Lumber	bd.ft	229.50	17.00	4.25	3,901.50	975.38	4,876.88
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	8.00	345.00	86.25	2,760.00	690.00	3,450.00
4.04	CWN, Assorted	kg	4.00	80.00	15.00	240.00	60.00	300.00
	Roof Beams	sq.m	69.99					
4.01	Coco Lumber	bd.ft	357.00	17.00	4.25	6,069.00	1,517.25	7,586.25
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	12.00	345.00	86.25	4,140.00	1,035.00	5,175.00
4.04	CWN, Assorted	kg	5.00	80.00	15.00	300.00	75.00	375.00
	Sub-total							26,817.00
5.00	Masonry Works							
	Masonry Wall	sq.m	114.38					
5.06	CHB 6" thk	pc	1,430.00	14.00	2.64	20,020.00	3,775.20	23,795.20
5.02	Portland Cement	bag	58.00	234.00	46.40	13,572.00	2,691.15	16,263.15
5.03	Washed Sand	cu.m	5.00	816.67	141.82	3,083.35	709.58	3,792.93
5.06	10mm x 6m RSB	kg	236.84	40.85	7.60	9,675.08	1,776.33	11,451.41
5.07	G.I. Tie Wire	kg	5.00	60.00	9.00	300.00	45.00	345.00
	Plastering	sq.m	228.77					
5.02	Portland Cement	bag	76.00	234.00	46.40	17,784.00	3,526.33	21,310.33
5.03	Washed Sand	cu.m	8.00	816.67	141.82	4,933.36	1,135.33	6,068.69
5.08	Concrete Louver Blocks	pc	16.00	30.00	6.60	480.00	105.60	585.60
	Sub-total							83,612.31
6.00	Doors and Windows							
	D-1, Panel Door 0.90m x 2.10m on 50mm x 150mm Wooden Jamb and fixed glass transom with keyed lever type lockset	set	2.00	7,817.50	1,018.28	15,635.00	2,032.55	17,667.55
6.03								
	D-3 Flush Door 0.60m x 2.10m on 150mm Wooden Jamb complete with Accessories	set	1.00	3,367.50	487.13	3,367.50	487.13	3,854.63
6.48								
	W-1, (2.6 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	1.00	10,188.00	1,324.44	10,188.00	1,324.44	11,512.44
6.07								
	W-2, (1.3 x 1.83 m) Shutter Type Window Jalousie Holder with Clear Glass Blades on Silver Colored Frame and Fixed Clear Glass Transom on 50 x 150 mm Wooden Jamb complete Accessories	set	2.00	5,072.00	659.36	10,144.00	1,318.72	11,462.72
6.45								
	W-3, (0.5 x 0.8 m) Steel Awning Window with Grilles with 1/4 thk Clear Glass Panels complete with Accessories	set	1.00	833.33	208.33	833.33	208.33	1,041.66
6.54								
	Sub-total							46,639.00
7.00	Steel Works							
	C-Channel 5mm thk	kg	397.39	38.90	8.44	15,458.36	3,353.95	18,812.31
7.02								
7.01	L 75 x 75 x 6mm	kg	78.59	38.90	8.24	3,057.23	647.65	3,704.78
7.06	LC 255 x 90 x 25 x 3.0mm	kg	253.87	34.50	8.63	8,758.48	2,189.62	10,948.10
7.07	LC 150 x 65 x 20 x 2.0mm	kg	1,135.78	34.50	8.63	39,184.44	9,796.11	48,980.55
7.11	L 100 x 100 x 6mm	kg	224.41	32.97	8.24	7,398.79	1,849.00	9,247.79
7.12	L 65 x 65 x 6mm	kg	229.55	32.97	8.24	7,568.34	1,892.07	9,460.42
7.14	L 50 x 50 x 6mm	kg	126.28	32.97	8.24	4,163.60	1,040.89	5,204.49
7.13	L 50 x 50 x 5mm	kg	33.88	32.97	8.24	1,117.01	279.25	1,396.27
	12mmØ Sag Rods with Standard Nuts and Washers	pc	9.00	200.00	16.25	1,800.00	146.25	1,946.25
7.20	Plain Round Bar 16mmØ x 6m	pc	6.00	386.83	71.50	3,094.64	572.00	3,666.64
7.31	Turn Buckle 16 mmØ	pc	16.00	80.00	20.00	1,280.00	320.00	1,600.00
7.24	Steel Plate 1.20m x 2.40m x 12mm thk	pc	0.25	10,500.00	2,100.00	2,625.00	525.00	3,150.00
7.30	Machine Bolts (6 mm dia.)	pc	66.00	25.00	5.50	1,650.00	363.00	2,013.00
7.25	Gusset Plate 1.20m x 2.40m x 10mm thk	pc	0.75	9,300.00	2,790.00	6,959.07	2,087.72	9,046.79
7.27	Gusset Plate 1.20m x 2.40m x 6mm thk	pc	0.25	8,650.00	2,595.00	2,162.50	648.75	2,811.25

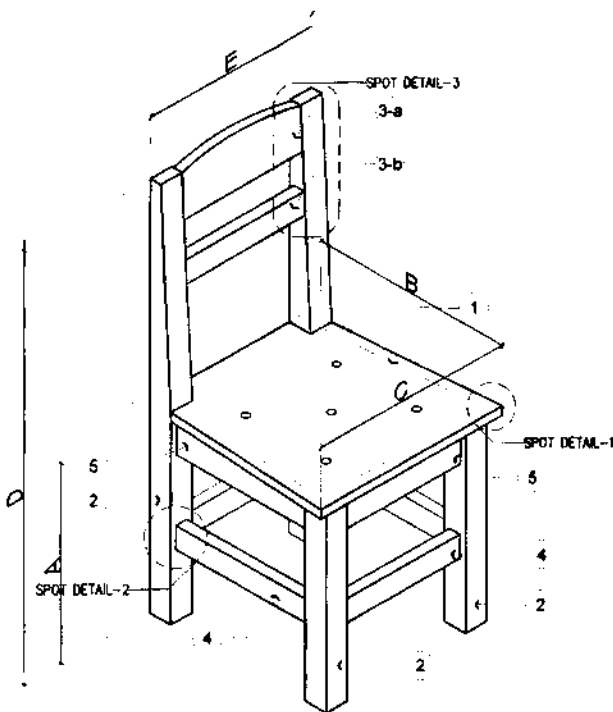
I.D. NO.	DESCRIPTION	UNIT	QTY.	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
7.33	Anchor Bolt with Nuts and Washer, 16mmØ x 50mm x 300mm	pc	16.00	45.00	11.25	720.00	180.00	900.00
7.34	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	104.00	27.00	6.75	2,808.00	702.00	3,510.00
7.44	G.I. Pipe 1-1/2"Ø Sch.40	pc	2.00	1,170.00	351.00	2,340.00	702.00	3,042.00
7.46	Welding Rod	kg	50.00	67.00	16.75	3,350.00	837.50	4,187.50
	Sub-total							143,628.12
8.00	Roofing Works							
8.16	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm thk	m	119.24	483.17	74.67	57,813.19	8,903.25	66,516.44
8.17	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	5.00	559.55	96.50	2,797.75	482.50	3,280.25
8.19	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm thk	pc	10.00	598.57	98.50	5,985.70	985.00	6,950.70
8.35	J-Bolt (6mm dia.)	pc	829.00	8.50	0.36	7,048.50	298.44	7,344.94
8.36	Roof Sealant	L	2.00	300.00	59.95	600.00	119.90	719.90
	Sub-total							84,812.23
9.00	Ceiling and Carpentry Works							
	Interior and Exterior Ceiling	sq.m	98.17					
8.17	Metal Carrying Channel (12mm x 38mm x 5m x .8mm thk	pc	19.00	125.00	61.38	2,375.00	1,166.22	3,541.22
9.09	Fiber Cement Ceiling Board (4.5mm thk)	pc	34.00	540.00	118.80	18,360.00	4,038.20	22,399.20
9.18	Metal Double Furring Channel (19mm x 50mm x 5mm x 0.5mm thk	pc	34.00	135.00	71.50	4,590.00	2,431.00	7,021.00
9.32	Wall Angle 1" x 1" x 10'	pc	22.00	90.00	19.80	1,980.00	435.60	2,415.60
8.20	W Clip	pc	158.00	5.00	1.50	780.00	237.00	1,027.00
9.21	Suspension Clip and Rod Joiner	pc	81.00	135.00	40.50	10,935.00	3,280.50	14,215.50
8.26	Steel Angle	pc	79.00	46.00	4.40	3,634.00	347.60	3,981.60
8.33	Suspension Rod #8	kg	89.00	30.00	31.90	2,670.00	2,839.10	5,509.10
8.37	Blind Rivets	pc	330.00	1.35	0.27	445.50	89.10	534.60
9.16	Concrete Nail #3	kg	1.00	70.00	7.92	70.00	7.92	77.92
9.27	Wooden Ceiling Ventilation (25mm x 25mm x 300mm with Wire Mesh)	pc	4.00	260.00	7.15	1,040.00	28.60	1,068.60
	Sub-total							61,791.34
10.00	Electrical Works							
	Roughing-ins							
10.01	Electrical Conduit uPVC, 15mmØ	pc	22.00	50.00	10.00	1,100.00	220.00	1,320.00
10.06	RSC 20mmØ	pc	1.00	112.50	22.50	112.50	22.50	135.00
10.34	Entrance Cap 20mm dia.	pc	1.00	50.00	10.00	50.00	10.00	80.00
10.16	Junction Box, 4" x 4" G.I.	pc	7.00	15.00	3.00	105.00	21.00	126.00
10.17	Utility Box, 2" x 4" G.I.	pc	5.00	30.00	6.00	150.00	30.00	180.00
10.37	Grounding Rod, 2.4m x 16mm dia.	pc	1.00	150.00	30.00	150.00	30.00	180.00
	Wires & Fixtures							
10.11	3.5 mm ² THW Wire, Stranded	m	198.00	33.00	6.60	6,534.00	1,306.80	7,840.80
10.12	5.5 mm ² THW Wire, Stranded	m	10.00	50.50	10.10	505.00	101.00	606.00
10.28	Duplex C.O. with Plate	pc	4.00	263.80	52.76	1,055.20	211.04	1,266.24
10.25	2-Gang Switch with Plate	pc	1.00	208.00	41.60	208.00	41.60	249.60
10.23	Single Switch with Plate	pc	2.00	97.68	19.54	195.36	39.07	234.43
10.18	FL 2 x 36W Fluorescent Lighting Fixture (Box Type - Surfaced Ceiling Mounted)	set	6.00	2,600.00	520.00	15,600.00	3,120.00	18,720.00
10.19	18W Compact Fluorescent Lighting Fixture with Medium keyless type Porcelain Receptacle (surfaced Ceiling Mounted)	set	2.00	215.00	236.90	430.00	473.80	903.80
10.53	Incandescent Bulb 50W	set	1.00	35.00	5.25	35.00	5.25	40.25
10.33	Ceiling Receptacle 3-1/2"Ø	pc	1.00	25.00	5.00	25.00	5.00	30.00
10.48	Panel Box, Flush Type, 4 Branches	set	1.00	1,202.75	180.41	1,202.75	180.41	1,383.16
10.40	Circuit Breaker, 40A 2P	set	1.00	441.00	62.60	441.00	62.60	503.60
10.39	Circuit Breaker, 20A 2P	set	3.00	313.00	62.60	939.00	187.80	1,126.80
10.59	Wall Fan (Standard/Any Equivalent)	set	2.00	1,500.00	150.00	3,000.00	300.00	3,300.00
10.58	Electrical Tape	pc	3.00	37.50	5.63	112.50	16.88	129.38
	Sub-total							38,335.08
11.00	Plumbing Works							
11.62	Water Closet 1.6gpf with Accessories	set	1.00	5,500.00	825.00	5,500.00	825.00	6,325.00
11.70	Faucet, Lavatory	set	1.00	800.00	120.00	800.00	120.00	920.00
11.71	Faucet, Sink	set	1.00	1,250.00	187.50	1,250.00	187.50	1,437.50
11.61	Water Closet Flange	set	1.00	262.50	39.38	262.50	39.38	301.88
11.67	Tissue Holder	pc	1.00	250.00	37.50	250.00	37.50	287.50
11.06	PP-R Pipe 1/2"Ø	pc	6.00	217.00	65.10	1,302.00	390.60	1,692.60
11.08	PP-R Coupling, 1/2"Ø	pc	4.00	9.00	2.70	36.00	10.80	46.80
11.21	PP-R Elbow 90° x 1/2"Ø	pc	6.00	14.00	4.20	84.00	25.20	109.20

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
11.15	PP-R Tee, 1/2"Ø	pc	3.00	17.00	5.10	51.00	15.30	66.30
11.85	S.S. Floor Drain 4" x 4"	pc	2.00	97.50	14.63	195.00	29.25	224.25
11.45	Gate Valve, 3/4"Ø	pc	2.00	320.00	96.00	640.00	192.00	832.00
11.44	Gate Valve, 1/2"Ø	pc	2.00	250.00	75.00	500.00	150.00	650.00
11.69	Mirror	sq.ft	8.00	100.00	15.00	800.00	120.00	920.00
	Sub-total							13,813.03
12.00	Sanitary Works							
12.32a	Septic Vault	unit	1.00	25,733.88	11,768.34	25,733.88	11,768.34	37,502.22
12.09	uPVC Sanitary Pipe 4"Ø	pc	4.00	560.00	168.00	2,240.00	672.00	2,912.00
12.13	uPVC Elbow 90o x 4"Ø	pc	2.00	96.00	28.80	192.00	57.60	249.60
12.25	uPVC Wye 4" x 2"	pc	2.00	97.00	29.10	194.00	58.20	252.20
12.27	uPVC Wye 4" x 4"	pc	2.00	165.00	49.50	330.00	99.00	429.00
12.28	Brass Cleanout 4" x 4"	pc	2.00	350.00	105.00	700.00	210.00	910.00
12.07	uPVC Sanitary Pipe 2"Ø	pc	4.00	210.00	63.00	840.00	252.00	1,092.00
12.11	uPVC Elbow 90o x 2"Ø	pc	2.00	25.00	7.50	50.00	15.00	65.00
12.14	uPVC Elbow 1/8 x 2"Ø	pc	2.00	20.50	6.15	41.00	12.30	53.30
12.17	uPVC Tee 2" x 2"	pc	2.00	36.00	10.80	72.00	21.60	93.60
12.30	uPVC P-Trap 2"	pc	2.00	66.00	19.80	132.00	39.60	171.60
12.33	PVC Cement	can	3.00	150.00	45.00	450.00	135.00	585.00
	Sub-total							44,316.52
13.00	Painting Works							
	Concrete surfaces	sq.m	228.77					
13.18	Neutralizer	gal	3.00	145.20	43.56	435.60	130.68	566.28
13.01	Latex, Flat	gal	10.00	466.40	139.92	4,664.00	1,399.20	6,063.20
13.14	Masonry Putty	gal	10.00	350.90	105.27	3,509.00	1,052.70	4,561.70
13.02	Latex, Semi Gloss	gal	10.00	541.75	162.53	5,417.50	1,625.25	7,042.75
13.20	Acri Color	qrt	3.00	181.50	54.45	544.50	163.35	707.85
	Wood surfaces	sq.m	103.37					
13.04	Enamel, Flatwall	gal	6.00	531.30	159.39	3,187.80	956.34	4,144.14
13.15	Glazing Putty	gal	6.00	541.20	162.36	3,247.20	974.16	4,221.36
13.05	Enamel, Semi Gloss	gal	6.00	546.70	164.01	3,280.20	984.06	4,264.26
13.16	Paint Thinner	gal	3.00	286.00	85.80	858.00	257.40	1,115.40
	Steel Surfaces	sq.m	106.23					
13.12	Primer, Zinc Chromate	gal	6.00	590.70	177.21	3,544.20	1,063.26	4,607.46
	Sub-total							37,294.40
14.00	Tile Works							
	Wall	sq.m	10.78					
14.04	Glazed Wall Tiles 20cm x 20cm	pc	270.00	14.00	4.20	3,780.00	1,134.00	4,914.00
14.16	Tile Adhesive 25 kg/bag	bag	2.00	224.10	67.23	448.20	134.46	582.66
14.15	Tile Grout 5 kg/bag	bag	1.00	150.00	45.00	150.00	45.00	195.00
	Flooring	sq.m	3.75					
14.04	Glazed Wall Tiles 20cm x 20cm	pc	94.00	14.00	4.20	1,316.00	394.80	1,710.80
14.16	Tile Adhesive 25 kg/bag	bag	1.00	224.10	67.23	224.10	67.23	291.33
14.15	Tile Grout 5 kg/bag	bag	1.00	150.00	45.00	150.00	45.00	195.00
	Sub-total							7,888.79
I.	MATERIALS (VAT inclusive)							706,424.96
II.	LABOR							160,250.10
III.	DIRECT COST (I + II)							866,675.06
IV.	INDIRECT COST 22% of (III)							187,363.44
V.	TAX 8% of (III + IV)							62,802.43
VI.	TOTAL CONSTRUCTION COST (III + IV + V)							1,108,850.93
VII.	ENGINEERING OVERHEAD 1% of (VI)							11,088.51
VIII.	TOTAL PROJECT COST (VI + VII)							PhP1,119,939.44
								PhP1,120,000.00

Prepared by:

Recommending Approval:

Approved:



ISOMETRIC VIEW
SCALE 1:10

DIMENSIONS OF TEACHER'S CHAIR (mm)			
MARK	COMPONENT	DIMENSION	REMARKS
A	SEAT HEIGHT	440	ALL DIMENSIONS SHALL BE SUBJECT TO A DIMENSION TOLERANCE OF PLUS OR MINUS 10mm
B	SEAT DEPTH	430	
C	SEAT WIDTH	430	
D	BACKREST HEIGHT	885	
E	BACKREST WIDTH	300	

TECHNICAL SPECIFICATIONS OF TEACHER'S CHAIR			
MARK	COMPONENT	SPECIFICATIONS	REMARKS
1	SEAT BOARD	19mm THK SOLID WOOD or 19mmx20mm SOLID WOOD EDGING or 15mm THK MARINE PLYWOOD WITH 4mm (MIN) WOOD EDGING PROVIDE 5 SEAT VENTILATION HOLES	ALL THICKNESS OF WOOD EXCEPT FOR MARINE PLYWOOD SHALL BE SUBJECT TO A DIMENSION TOLERANCE OF PLUS OR MINUS 2mm
2	LEG (FRONT & BACK)	50mmx50mm THK SOLID WOOD	
3	BACK REST	or 20mm THK x 100mm SOLID WOOD or 25mm THK x 30mm SOLID WOOD	
4	LEG SUPPORT	4-25mmx20mm THK SOLID WOOD	
5	SEAT SUPPORT	4-25mmx20mm THK SOLID WOOD	
	FINISH	CHECK FINISH REFER TO PAINTING SCHEDULE	

NOTE: ALL SOLID WOOD MUST BE TREATED (SUN-DRIED OR KILN-DRIED)
SPICE: SANGRE, SEMELIN or RED LAJUN

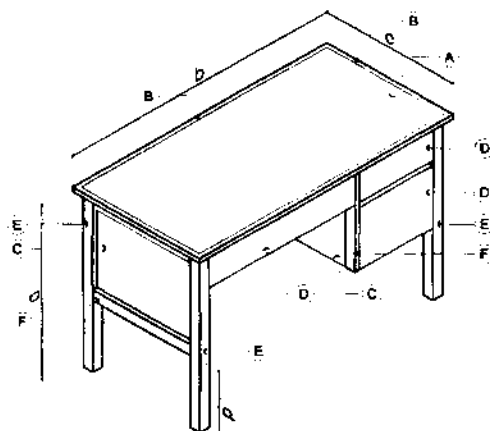
PAINTING SCHEDULE	
SANDING	ALL SURFACE TO BE COATED SHALL BE SMOOTHLY SANDED
1st COAT	OIL WOOD STAIN - ONE FULL COLOR
INTERMEDIATE COAT	LACQUER FINISHING SEALER
TOP COAT	CLEAR GLOSS LACQUER

DIMENSIONS OF TEACHER'S TABLE (mm)			
MARK	COMPONENT	DIMENSION	REMARKS
a	TABLE HEIGHT	700	ALL DIMENSIONS SHALL BE SUBJECTED TO A MAXIMUM TOLERANCE OF PLUS OR MINUS 0.5mm
b	TABLE LENGTH	1200	
c	TABLE WIDTH	600	
d	SEAMING/BACKING HEIGHT	300	

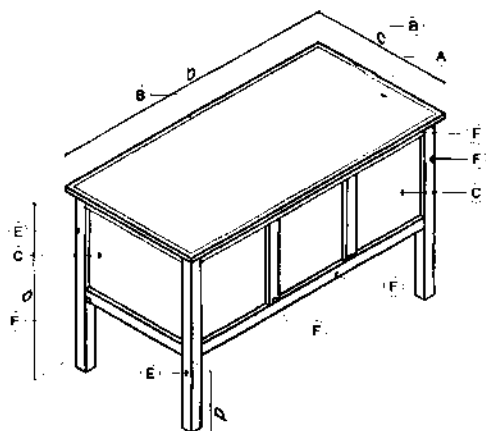
PAINTING SCHEDULE	
SANDING	ALL SURFACE TO BE COATED SHALL BE SMOOTHLY Sanded
1st COAT	OIL WOOD STAIN - DARK FULL COLOR
INTERMEDIATE COAT	LACQUER SANDING SEALER
TOP COAT	CLEAR GLOSS LACQUER

TECHNICAL SPECIFICATIONS OF TEACHER'S TABLE			
MARK	COMPONENT	SPECIFICATIONS	REMARKS
A	TABLE TOP	19mm THK SOLID WOOD OR 19mm THK MARINE PLYWOOD	ALL THICKNESS OF WOOD EXCEPT FOR MARINE PLYWOOD SHALL BE SUBJECTED TO A TOLERANCE OF PLUS OR MINUS 0.5mm
B	EDGING	19mmx20mm SOLID WOOD	
C	SEAMING/BACKING	6mm THK MARINE PLYWOOD	
D	DRAWER	(REFER TO "TECHNICAL SPECIFICATIONS OF DRAWERS" - SHEET NO. 7 OF 10)	
E	LEG	45mmx45mm SOLID WOOD	
F	FRAME/RAILER	20mmx45mm THK SOLID WOOD	
	FINISH	SMOOTH FINISH REFER TO PAINTING SCHEDULE	

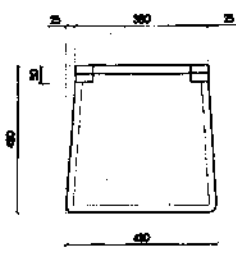
NOTE: ALL SOLID WOOD MUST BE TREATED (SUN-DRIED OR KILN-DRIED) SPECIE: TWIGGALL, GEBELAN OR RED WALNUT



FRONT-LEFT SIDE
ISOMETRIC VIEW
SCALE 1:30



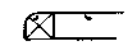
REAR-RIGHT SIDE
ISOMETRIC VIEW
SCALE 1:30



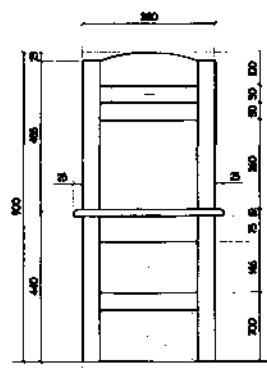
TOP VIEW
SCALE 1:20

15mmx20mm
SOLID WOOD
EDGING

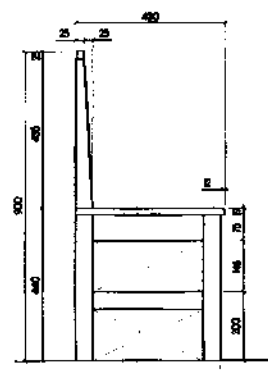
19mm THK
SOLID WOOD
OR 19mm THK
MARINE PLYWOOD



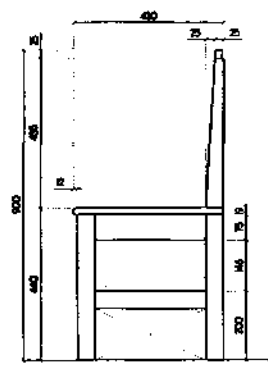
SPOT DETAIL-1
SCALE 1:10



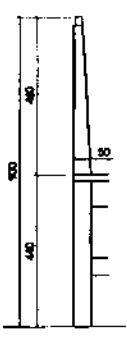
FRONT VIEW
SCALE 1:20



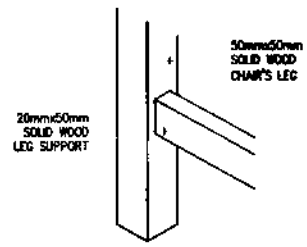
LEFT-SIDE VIEW
SCALE 1:20



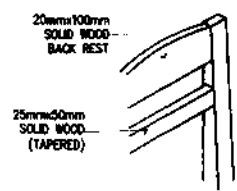
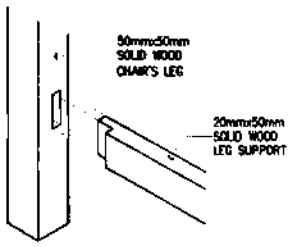
RIGHT-SIDE VIEW
SCALE 1:20



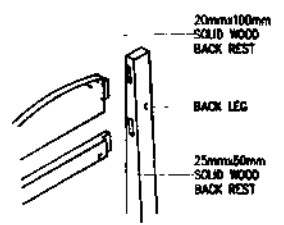
BACK LEG
DETAIL
SCALE 1:20



TYPICAL WOOD JOINT
SPOT DETAIL-2
SCALE 1:10



WOOD JOINT- BACK REST
SPOT DETAIL-3
SCALE 1:10

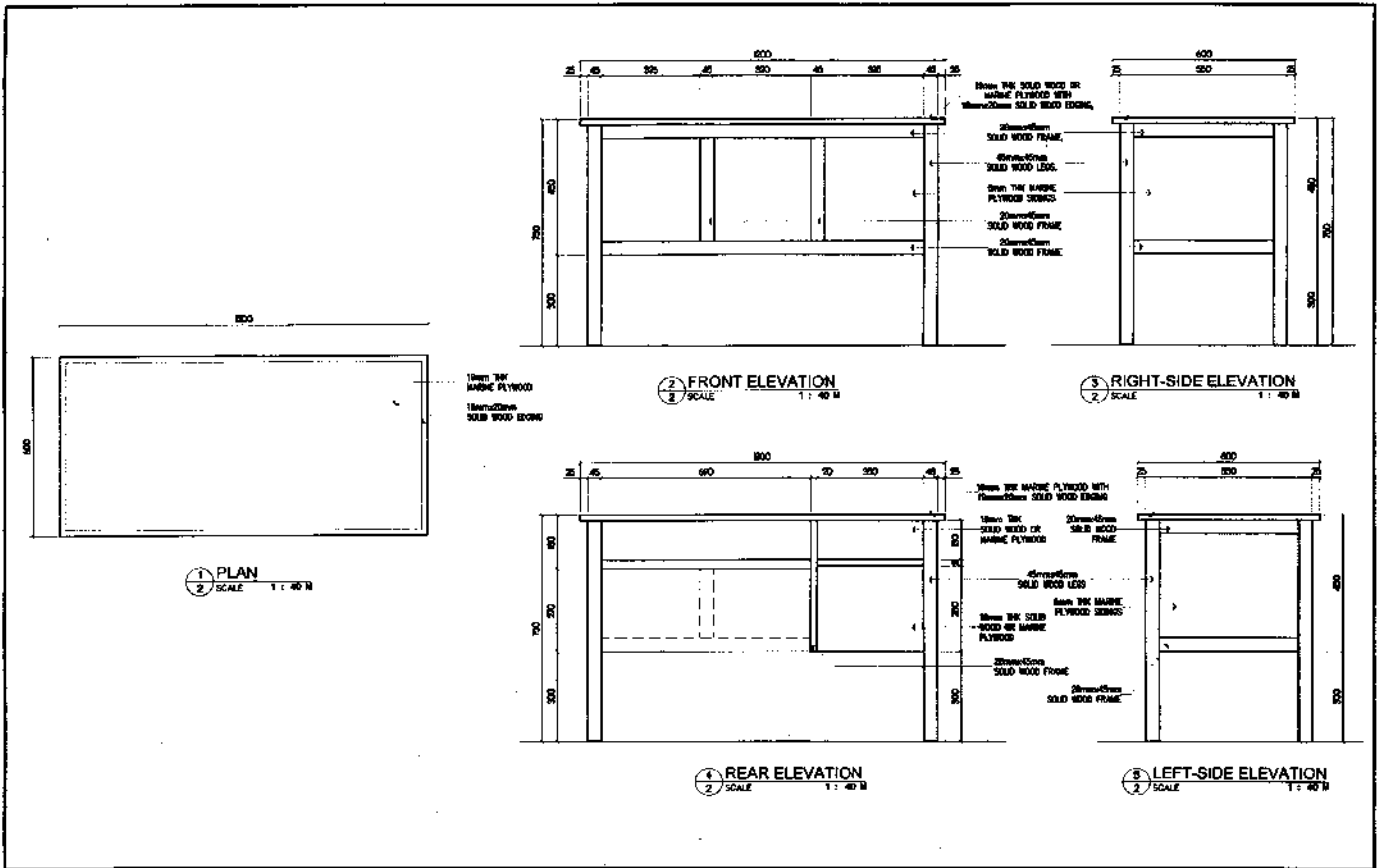


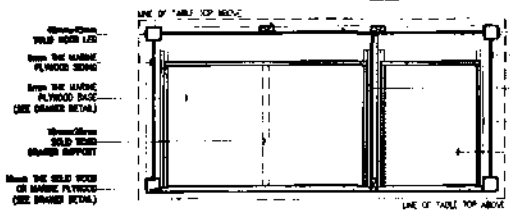
PROJECT NO: 1
15.07.2019

DESIGN OF CLASSROOM
TEACHER'S CHAIR
(ALL WOOD)

PROJNO: DR. 01. 2019

SHEET NO.	2
	2

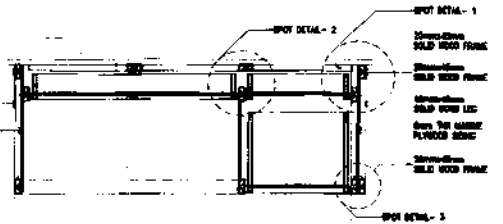




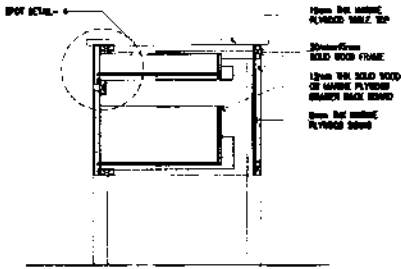
SECTION THRU-A
SCALE 1:2 40/16

- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD LEG
- FROM THE HANGING PLYWOOD SHEET
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
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- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET

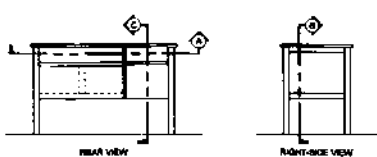
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
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- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET
- SECTION THRU SOLID WOOD FRAME
- FROM THE HANGING PLYWOOD SHEET



SECTION THRU-B
SCALE 1:2 40/16



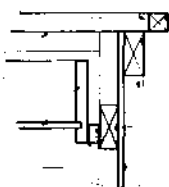
SECTION THRU-C
SCALE 1:2 40/16



KEY (ELEVATION)



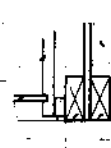
25mm/1" Clear
SOLID WOOD FRAME,
12mm 1/2" SOLID WOOD OR
12mm 1/2" MARINE PLYWOOD
DRAWER SIDE BOARD
6mm 1/8" MARINE
PLYWOOD DRAWER BASE
DRAWER GUIDE/RUNNER



1 SPOT DETAIL-1
SCALE 1 : 30 D

15mm 1/2" MARINE PLYWOOD
15mm/20mm
SOLID WOOD EDGING
20mm/25mm THE
SOLID WOOD FRAME
45mm/50mm 1/2"
SOLID WOOD LEG
25mm/30mm THE
SOLID WOOD FRAME
6mm 1/8" MARINE
PLYWOOD SPOON

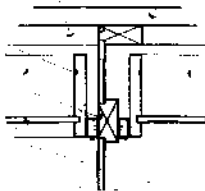
15mm 1/2"
SOLID WOOD OR
MARINE PLYWOOD
6mm 1/8" MARINE
PLYWOOD BASE
DRAWER GUIDE/RUNNER



45mm/50mm
SOLID WOOD LEG
6mm 1/8" MARINE
PLYWOOD SPOON
25mm/30mm THE
SOLID WOOD FRAME

3 SPOT DETAIL-3
SCALE 1 : 30 D

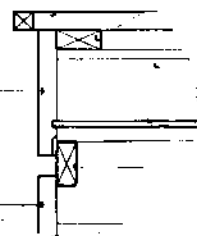
25mm/30mm
SOLID WOOD FRAME,
12mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
20mm/25mm
SOLID WOOD FRAME
6mm 1/8" MARINE
PLYWOOD



2 SPOT DETAIL-2
SCALE 1 : 30 D

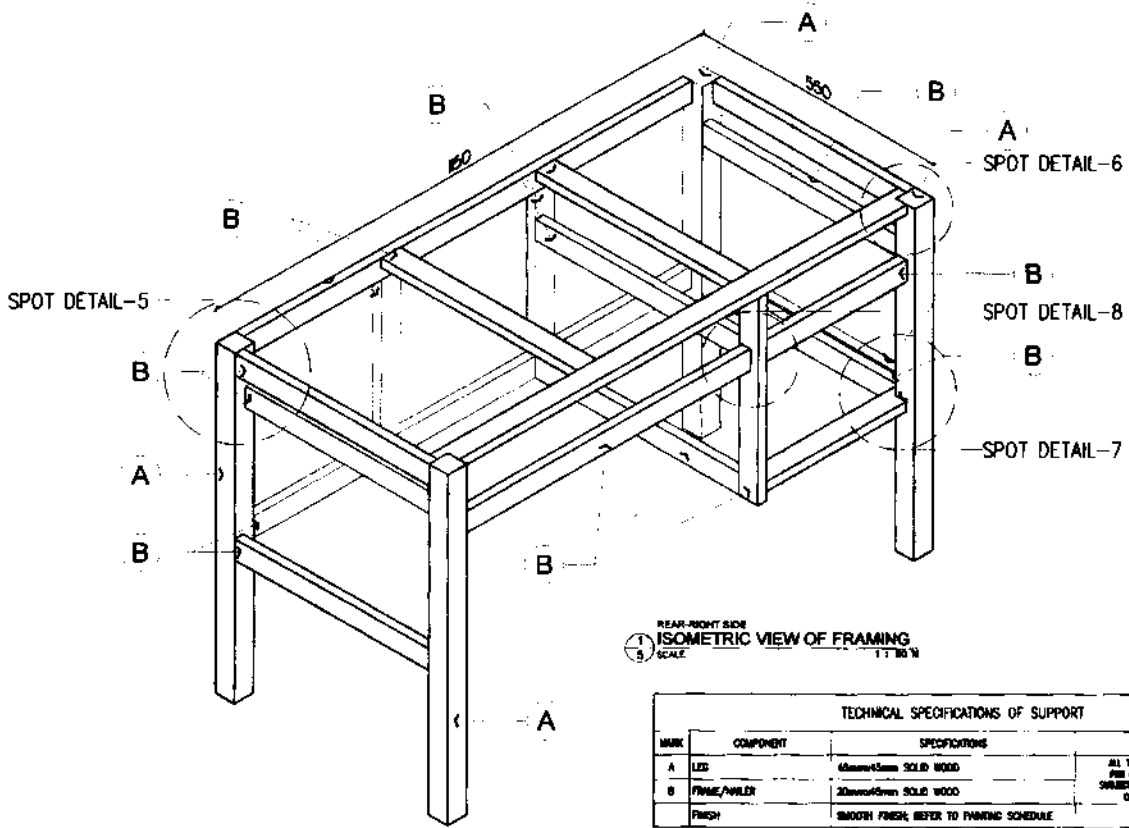
15mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
TABLE TOP
15mm/20mm
SOLID WOOD EDGING
15mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
4mm 1/8" MARINE PLYWOOD
DRAWER GUIDE/RUNNER

15mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
TABLE TOP
15mm/20mm
SOLID WOOD EDGING
15mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
w/ 6mm 1/8" EDGING
15mm 1/2" SOLID WOOD
OR MARINE PLYWOOD
w/ 6mm 1/8" EDGING



25mm/30mm
SOLID WOOD
12mm 1/2" SOLID
WOOD OR MARINE
PLYWOOD SIDE BOARD
6mm 1/8" MARINE
PLYWOOD BASE
25mm/30mm
SOLID WOOD

4 SPOT DETAIL-4
SCALE 1 : 30 D

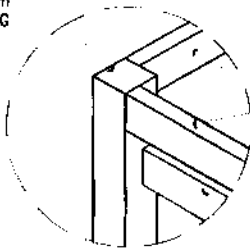


REAR-RIGHT SIDE
 ISOMETRIC VIEW OF FRAMING
 SCALE 1/8" = 1'

TECHNICAL SPECIFICATIONS OF SUPPORT			
MARK	COMPONENT	SPECIFICATIONS	REMARKS
A	LEG	45mmx45mm SOLID WOOD	ALL THICKNESS OF WOOD SHOULD PER ABOVE PLANING SHALL BE SUBJECTED TO A MINIMUM TOLERANCE OF PLUS OR MINUS 2mm.
B	FRAME/RAILER	20mmx45mm SOLID WOOD	
	FINISH	SMOOTH FINISH; REFER TO FINISHING SCHEDULE	

NOTE: ALL SOLID WOOD MUST BE TREATED AGAIN AGAIN OR AGAIN AGAIN

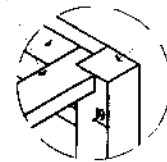
45mmx45mm
SOLID WOOD LEG



20mmx45mm
SOLID WOOD
FRAME/NAILER

1 SPOT DETAIL- 5
6 SCALE 1 : 25 M

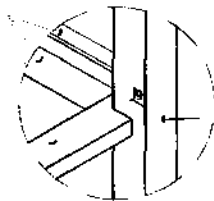
20mmx45mm
SOLID WOOD
FRAME/NAILER,
MAPLE PAINT FIN.



45mmx45mm
SOLID WOOD LEG

2 SPOT DETAIL- 6
6 SCALE 1 : 25 M

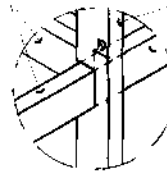
20mmx45mm
SOLID WOOD
FRAME/NAILER



45mmx45mm
SOLID WOOD LEG

3 SPOT DETAIL- 7
6 SCALE 1 : 25 M

20mmx45mm
SOLID WOOD
FRAME/NAILER



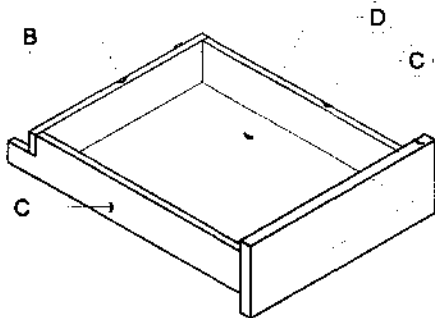
20mmx45mm
SOLID WOOD
FRAME/NAILER

4 SPOT DETAIL- 8
6 SCALE 1 : 25 M

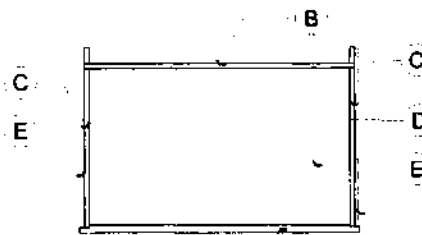
TECHNICAL SPECIFICATIONS OF DRAWERS

MARK	COMPONENT	SPECIFICATIONS	REMARKS
A	FRONT BOARD	19mm THK SOLID WOOD OR 19mm THK MARINE PLYWOOD WITH 6mm WOOD EDGING	ALL THICKNESS OF WOOD EXCEPT FOR MARINE PLYWOOD SHALL BE SUBJECTED TO A TOLERANCE OF PLUS OR MINUS 2mm
B	BACK BOARD	12mm THK SOLID WOOD OR 12mm THK MARINE PLYWOOD WITH 6mm WOOD EDGING	
C	SIDE BOARD	12mm THK SOLID WOOD OR 12mm THK MARINE PLYWOOD WITH 6mm WOOD EDGING	
D	BASE BOARD	6mm MARINE PLYWOOD	
E	DRAWER GUIDE / RUNNER	1.2mm THK x 450mm LENGTH SCREW-ON SLIDING TYPE METAL GUIDE/RUNNER WITH HARD PLASTIC ROLLER	
	FINISH	SMOOTH FINISH REFER TO PAINTING SCHEDULE SHEET 1 OF 16	

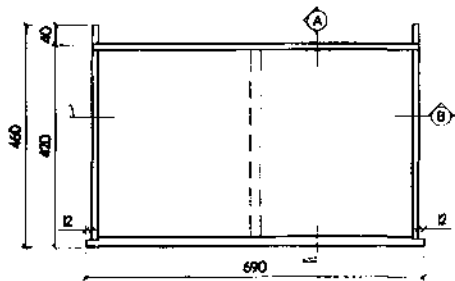
NOTE: ALL SOLID WOOD MUST BE TREATED (SUN-DRIED OR KILN-DRIED) SPECIE: TANGULU, GEMELINA OR RED KUMAR



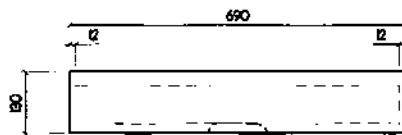
KEY- ISOMETRIC VIEW



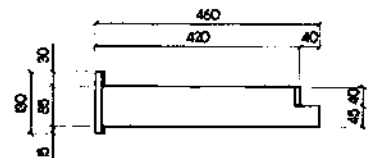
KEY PLAN



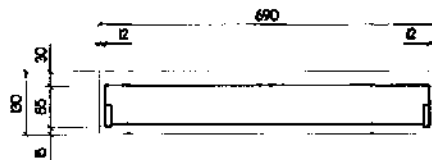
1 TOP VIEW
SCALE 1:25 M



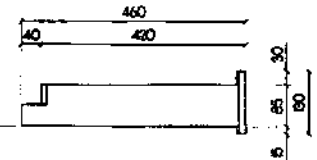
3 FRONT VIEW
SCALE 1:25 M



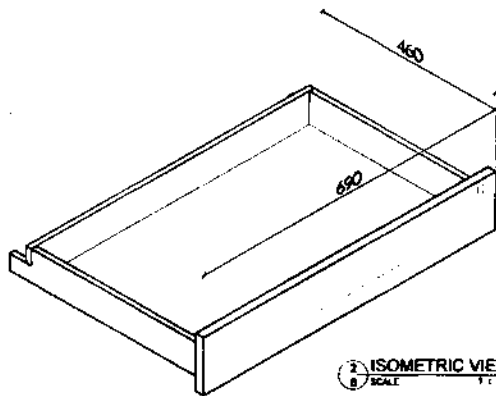
4 RIGHT-SIDE VIEW
SCALE 1:25 M



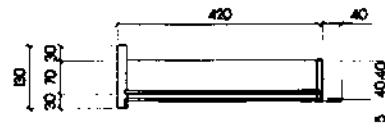
5 REAR VIEW
SCALE 1:25 M



6 LEFT-SIDE VIEW
SCALE 1:25 M

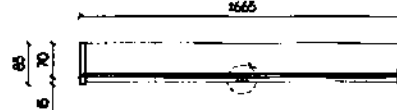


2 ISOMETRIC VIEW
SCALE 1:25 M



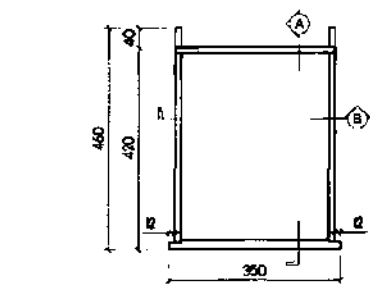
7 SECTION THRU-A
SCALE 1:25 M

10mmx20mm SOLID
WOOD SUPPORT
ON CENTER OF DRAWER

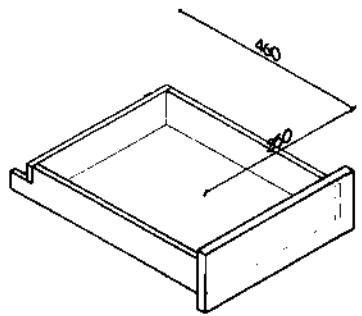


8 SECTION THRU-B
SCALE 1:25 M

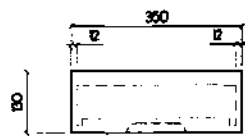
DETAIL OF DRAWER- 1



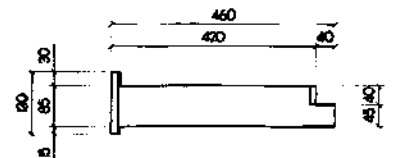
1 PLAN
SCALE 1 : 25 M



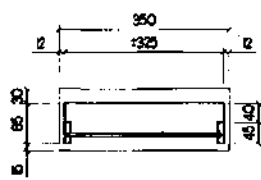
2 ISOMETRIC VIEW
SCALE 1 : 50 M



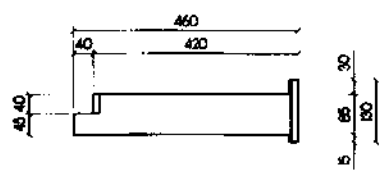
3 FRONT VIEW
SCALE 1 : 25 M



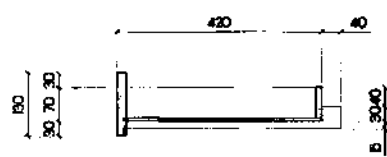
4 RIGHT-SIDE VIEW
SCALE 1 : 25 M



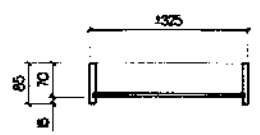
5 REAR VIEW
SCALE 1 : 25 M



6 LEFT-SIDE VIEW
SCALE 1 : 25 M

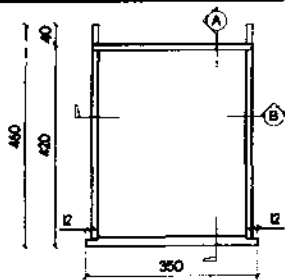


7 SECTION THRU-A
SCALE 1 : 25 M

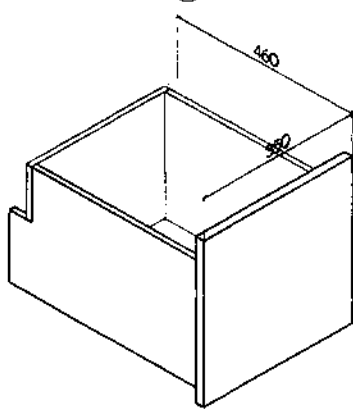


8 SECTION THRU-B
SCALE 1 : 25 M

DETAIL OF DRAWER- 2

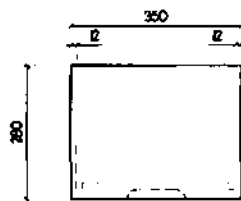


1 TOP VIEW
SCALE 1 : 25 mm

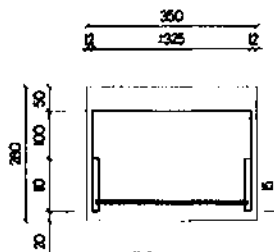


2 ISOMETRIC VIEW
SCALE 1 : 25 mm

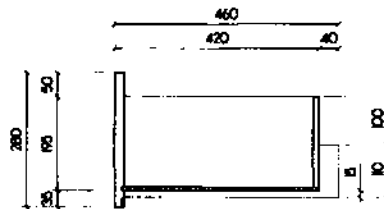
DETAIL OF DRAWER- 3



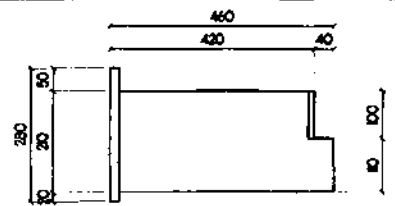
3 FRONT VIEW
SCALE 1 : 25 mm



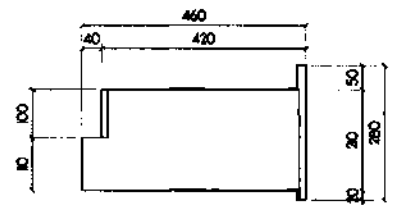
5 REAR VIEW
SCALE 1 : 25 mm



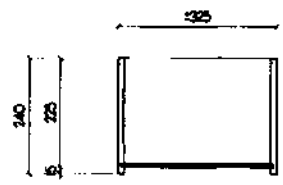
7 SECTION THRU-A
SCALE 1 : 25 mm



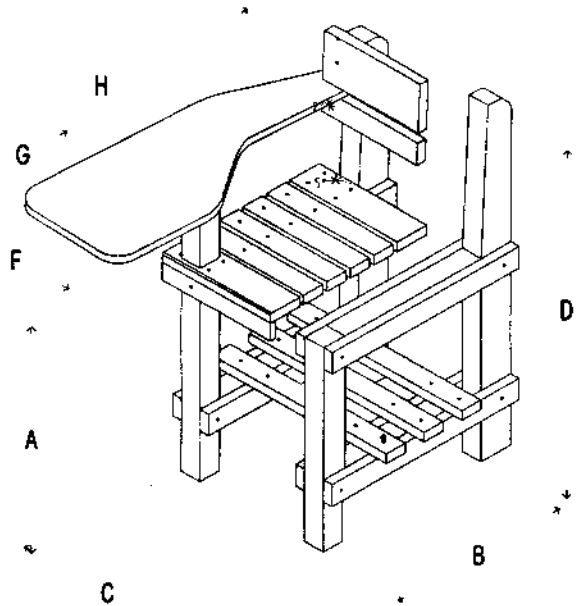
4 RIGHT-SIDE VIEW
SCALE 1 : 25 mm



6 LEFT-SIDE VIEW
SCALE 1 : 25 mm



8 SECTION THRU-B
SCALE 1 : 25 mm



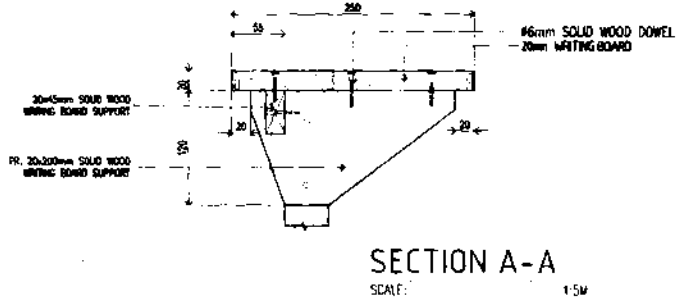
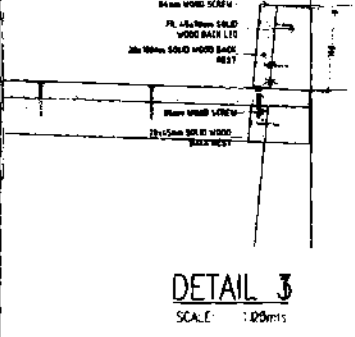
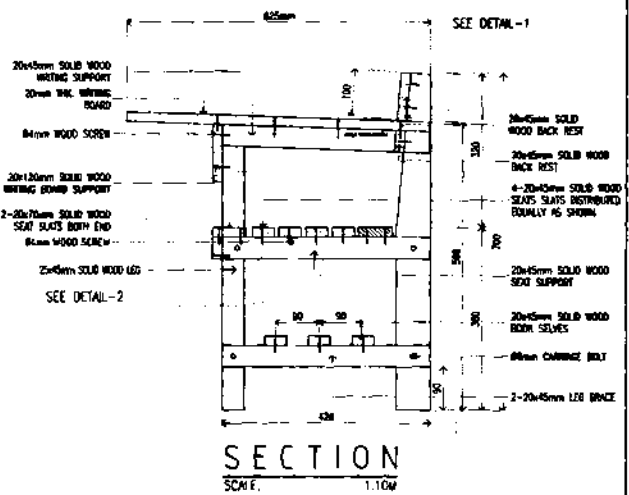
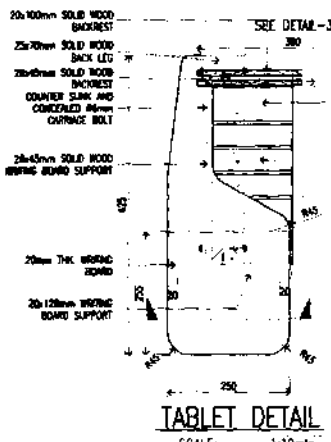
ISOMETRIC VIEW
SCALE: HTS

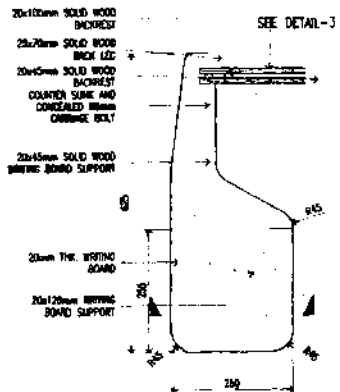
DIMENSIONS OF GRADE V-VI
TABLET ARMCHAIR IN MILLIMETER

LEVEL	DIMENSIONS	REMARKS
A SEAT HEIGHT	380	ALL DIMENSIONS SHALL BE SUBJECT TO A MAXIMUM TOLERANCE OF PLUS OR MINUS 10mm EXCEPT ON THE WIDTH OF THE WRITING BOARD WHICH SHOULD NOT BE SMALLER THAN THE REQUIRED WIDTH OF 250mm.
B SEAT DEPTH	370	
C SEAT WIDTH	390	
D BACKREST HT.	700	
E WRITING BOARD HT.	623	
F WRITING BOARD WIDTH	250	
G WRITING BOARD DEPTH	255	
H WRITING BOARD LENGTH	625	

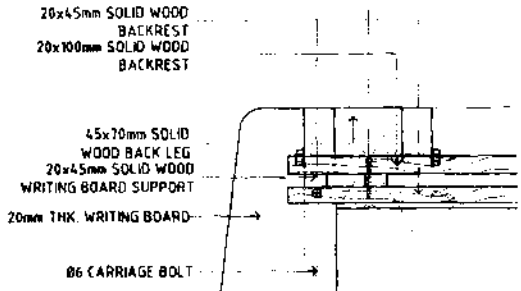
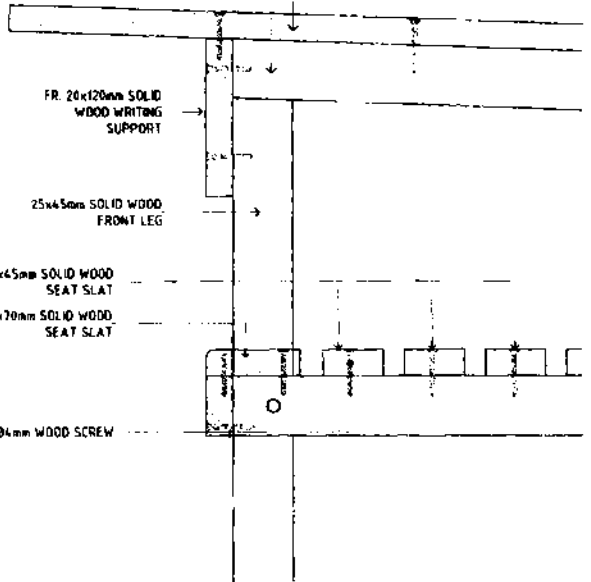
TECHNICAL SPECIFICATIONS	REMARKS
SEAT SLAT 4-20mmx45mm, SOLID WOOD 2-20mmx70mm, SOLID WOOD	ALL THICKNESS OF WOOD EXCEPT FOR MARINE PLYWOOD SHALL BE SUBJECT TO A TOLERANCE OF PLUS OR MINUS 2mm.
FRONT LEG 45mmx45mm, SOLID WOOD	
BACK LEG 45mmx70mm, SOLID WOOD	
BACK REST 1-20mmx100mm, SOLID WOOD 1-20mmx50mm, SOLID WOOD	
WRITING BOARD 20mm THK SOLID WOOD OR 19mm(MIN.) THK MARINE PLYWOOD WITH EDGING 6mm (MIN.)	
BOOK SHELF 3-20x45mm SOLID WOOD	
FINISHES VARNISH TYPE, 3 COATINGS SPRAYED	

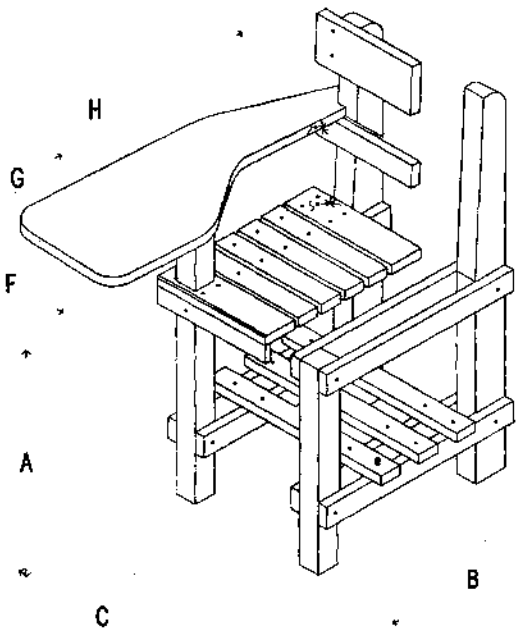
NOTE:
ALL SOLID WOOD MUST BE TREATED SUN DRIED OR
KILN DRIED
SPECIE: TANGULE, GENEJUNE, RED LAUAN





20mm THK. WRITING BOARD
 20x45mm SOLID WOOD WRITING BOARD SUPPORT





ISOMETRIC VIEW

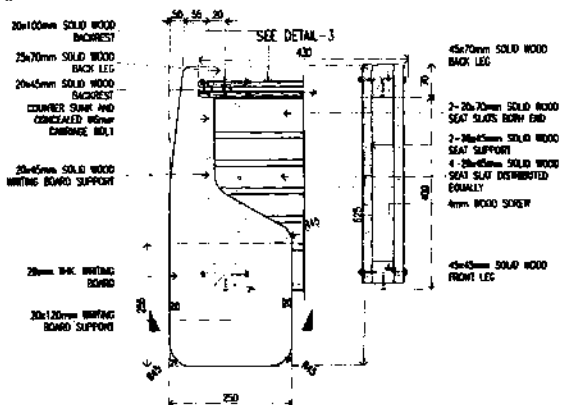
SCALE: NTS

DIMENSIONS OF GRADE SECONDARY TABLET ARMCHAIR IN MILLIMETER

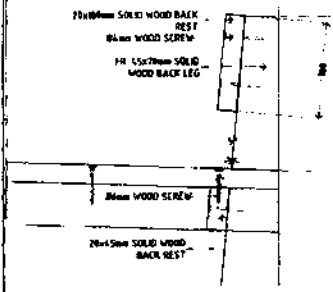
LEVEL	DIMENSIONS	REMARKS
A SEAT HEIGHT	400	ALL DIMENSIONS SHALL BE SUBJECT TO A MAXIMUM TOLERANCE OF PLUS OR MINUS 10mm EXCEPT ON THE WIDTH OF THE WRITING BOARD WHICH SHOULD NOT BE SMALLER THAN THE REQUIRED WIDTH OF 250mm.
B SEAT DEPTH	400	
C SEAT WIDTH	430	
D BACKREST HT.	800	
E WRITING BOARD HT.	640	
F WRITING BOARD WIDTH	250	
G WRITING BOARD DEPTH	255	
H WRITING BOARD LENGTH	625	

TECHNICAL SPECIFICATIONS		REMARKS
SEAT SLAT	4-20mmx45mm, SOLID WOOD 2-20mmx70mm, SOLID WOOD	ALL THICKNESS OF WOOD EXCEPT FOR MARINE PLYWOOD SHALL BE SUBJECT TO A TOLERANCE OF PLUS OR MINUS 2mm.
FRONT LEG	45mmx45mm, SOLID WOOD	
BACK LEG	45mmx70mm, SOLID WOOD	
BACK REST	1-20mmx100mm, SOLID WOOD 1-20mmx50mm, SOLID WOOD	
WRITING BOARD	20mm THK SOLID WOOD OR 15mm(MIN.) THK. MARINE PLYWOOD WITH EDGING 6mm (MIN.)	
BOOK SHELF	3-20x45mm SOLID WOOD	
FINISHES	WOOD - SMOOTH FINISH WITH AT LEAST 3 COATS VARNISH, MAPLE FINISH.	

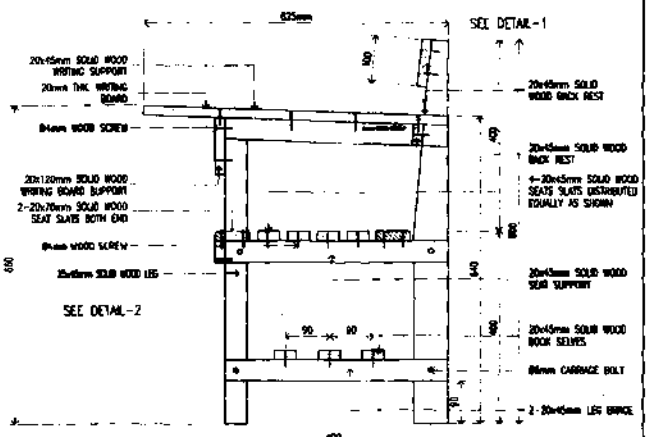
NOTE:
ALL SOLID WOOD MUST BE TREATED SUN DRIED OR KILN DRIED
SPECIE: TANGUILE, GEMELINE, RED LAUAN



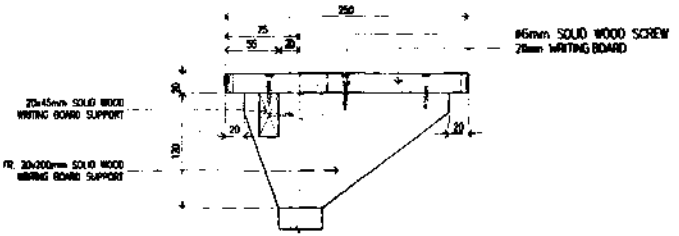
TABLET DETAIL
SCALE: 1:10ms



DETAIL 1
SCALE: 1:20ms



SECTION
SCALE: 1:10M



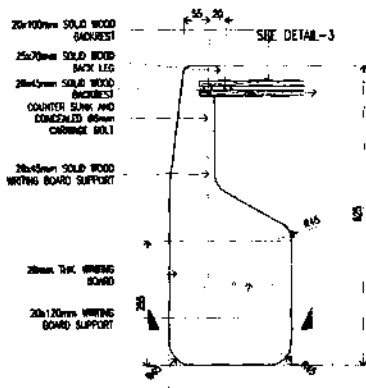
SECTION A-A
SCALE: 1:5M



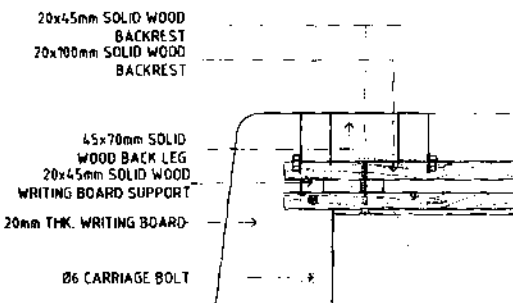
**TYPICAL DESIGN OF ARMCHAIR
FOR SECONDARY
ALL WOOD**

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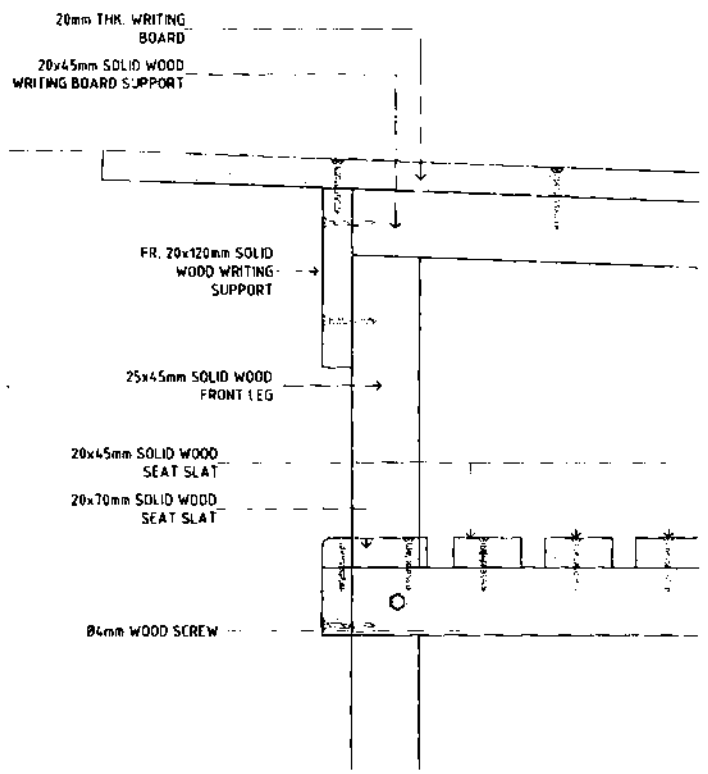
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TABLET DETAIL
 SCALE: 1:10ms.



DETAIL 3
 SCALE: 1:5ms.



TYPICAL DESIGN OF ARMCHAIR
 FOR SECONDARY
 ALL WOOD

PREPARED ON: CY 2016

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