



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBOANGA DEL NORTE
2nd DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE IX
Sta. Isabel, Dipolog City

**APPROVED BUDGET FOR THE CONTRACT (ABC)**

Summary of Costs

Fill out all the spaces provided. Write (N/A) if not applicable.

No.	Item	Cost
1	Actual Market Price of Product	PHP 999,800.00
2	Incidental Expenses	
	• Taxes/Customs/Duties	N/A
	• Licenses/Registration	N/A
	• Insurance	N/A
	• Storage/Freight/Hauling	N/A
	• Installation/Removal	N/A
	• Training Costs	N/A
	• Cost of Inspection	N/A
	• Others: (Specify)	
3	Cost of Money/Adjustment for Inflation	N/A
4	Discounts (for Bulk Builing)	N/A
5	Spare Parts/Maintenance Costs/Warranty	N/A
6	Adjustment for currency valuation	N/A
	(if procured from a foreign country/abroad)	
7	Life cycle cost	N/A
	Grand Total	PHP 999,800.00

Prepared by:


ROLLY JAY B. BACARA

Engineer II

Specialized Office Concerned

Approved by:


AMINODIN T. MANIRI
 District Engineer



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Technical Specifications for
REFLECTIVE THERMOPLASTIC PAINT
(WHITE AND YELLOW)

TECHNICAL SPECIFICATIONS	MINIMUM REQUIRED	
	WHITE	YELLOW
COMPONENT	COMPOSITION OF CONSTITUENTS	
Binder, min.	18	18
Glass Beads	30-40	30-40
Titanium Dioxide, min.	10	
Chrome Yellow, Medium, min.		10
Calcium Carbonate and Inert Filler, Max.	42	42

Note: The pigment, beads and filler shall be uniformly dispersed in the resin. The material shall be free from all skins, dirt and foreign objects and shall comply with the requirements as specified.

TECHNICAL SPECIFICATIONS	MINIMUM REQUIRED	
	WHITE	YELLOW
PROPERTY	PHYSICAL CHARACTERISTICS	
Specific Gravity, max.	2.15	2.15
Drying Time, minutes max.	10	10
Bond Strength to Portland Cement Concrete after heating for four (4) hours ± 5 min. @ 218°C, MPa, max.	1.24	1.24
Cracking Resistance @ low temp. after heating for four (4) hours ± 5 min. @ 218 ± 2 °C	No Cracks	No Cracks
Impact Resistance after heating for four (4) hours ± 5 min. @ 218 ± 2 °C and forming test specimens, mm/kg, min.	115	115
Softening Point after heating for four (4) hours ± 5 min. @ 218 ± 2 °C	102.5 \pm 9.5°C	102.5 \pm 9.5°C
Daylight reflectant @ 45 Degrees – 0 Degrees, % min.	75	45

Source: DPWH Standard Specifications for Highways, Bridges and Airports 2013 conforming to AASHTO M249.


ROLLY JAY B. BACARA
Engineer II
Maintenance Section