SUBJECT:											
Item	AGENCY & DETAILED ESTIMATE	Location on Plan	QUANTITY	UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	OVERHEAD, CONTINGENCY AND MISCELLANEOU S EXPENSES+PRO	VAT(5%)	TOTAL COST	TOTALS
								FIT			
01 00 00	DIVISION 01 - GENERAL REQUIREMENTS										
	Mobilization and Demobilization		1.00	lot		N/A					
	Construction Facilities Cost[Field Office, First Aid Facilities, Sanitary Facilities] Temporary Scaffolding and Platforms		1.00 1.00	lot lot		N/A N/A					
	Temporary Scanolong and Platforms Temporary Barriers and Enclosures		1.00	lot		N/A N/A					
	Equipment and Tools		1.00	lot		N/A					
	Safety Provision (See Project Manual for Details)		1.00	lot		N/A					
01 74 00	Cleaning and Waste Management Cost[Progress Cleaning, Site Maintenance, Construction Waste Management and Disposal, Final Cleaning] DVMSION 7 SUBLIDIA		1.00	lot		N/A					
	DIVISION 1 SUBTOTAL										
02 00 00	DIVISION 02- EXISTING CONDITIONS										
	DEMOLITION AND STRUCTURE MOVING										
	Existing Floor Tiles	IB Toilets	100.09	m²							
	Existing Floor Tiles	KA Toilets	37.72 326.99	m²							
	Existing CHB Partition Walls, Doors, Concrete Countertops and Slop Sinks Existing CHB Partition Walls, Doors, Concrete Countertops and Slop Sinks	IB Toilets KA Toilets	326.99	m ² m ²							
	Existing CHB Partition Walls, Doors, Concrete Countertops and Stop Sinks	IB Toilets	4.20	m²							
			4.20								
	Concrete Coring with Magnetic Drill	IB Toilets	7.00	hole							
	DIVISION 2 SUBTOTAL										
	DIVISION 03 - CONCRETE Concrete Forming										
03 10 00	Concrete Forming										
	Reinforcement										
	* Add #16 GI Tie Wire to reinforcement and wastage to unit costs										
	Cast in Place Concrete										
	*Allow for wastage and contingency cost to unit costs										
	Concrete Stiffener										
1	Cast in Place Concrete (24.1mPA)[3500PSI]	IB Toilet Fixture-Wall Connection Stiffener	2.30	m³							
	Cast in Place Concrete (24.1mPA)[3500PSI]	KA Toilet Fixture-Wall Connection Stiffener	0.89	m³							
	12mm Reinforcing Steel Bar G60; fy 416 MPa [150mm OC bothways + 150mm bothways]	IB Toilet Fixture-Wall Connection Stiffener	25.76	kg							
	12mm Reinforcing Steel Bar G60; fy 416 MPa [150mm OC bothways + 150mm bothways]	KA Toilet Fixture-Wall Connection Stiffener	9.90	kg							
	Cast in Place Concrete 27.5MPa[4000PSI]	All Pipe Trench Fillers on Concrete Slabs	0.60	m ³							
	DIVISION 3 SUBTOTAL										
04 00 00	DIVISION 04 - MASONRY										
	WALL TYPE 02- 90mm Composite Sandwich Type Structural Panel (40mm expanded polystyrene core on high tensile wires, incl.Accessories :Flat mesh, Angle mesh and U-mesh) include 25mm concrete render on both sides paper finish	IB	112.02	m²							

Agham Buildings

PROJECT: Construction/Renovation of Comfort Rooms of Iskolar ng Bayan and Kolehiyo ng

					-	-			
	WALL TYPE 02- 90mm Composite Sandwich Type Structural Panel (40mm expanded polystyrene core on high tensile wires, incl.Accessories :Flat mesh, Angle mesh and U-mesh) include 25mm concrete render on both sides paper finish	KA	42.98	m²					
	Inish								
	DIVISION 4 SUBTOTAL								
	DIVISION 4 SUBTOTAL								
07.00.00									
07 00 00	DIVISION 07 - THERMAL & MOISTURE PROTECTION								
	*INCLUDE WASTAGE INTO MATERIAL UNIT COSTS								
07 10 00	Damproofing and Water Proofing								
	*seams and laps included								
	Torch-on Waterproofing Membrane								
	Cementitious Waterproofing Slurry, One Component, 2 coats [Bostik Powerseal or equivalent]	Toilet IB-1A	36.77	m²					
	Cermentitious Waterproofing Slurry, One Component, 2 coats [Bostik Powerseal or equivalent]	Toilet IB-1B	22.79	m²					
	4mm Thk, Torch-on, Sheet Waterproofing membrane based on APP modified, reinforced bitumen, with sand broadcast surface,include laps and seams[Sika Bituseal T-140SG or equivalent] on Bituminous Primer[Shell Flintkote Black Primer or equivalent]	Toilet IB-2A	36.05	m²					
	4mm Thk, Torch-on, Sheet Waterproofing membrane based on APP modified, reinforced bitumen, with sand broadcast surface,include laps and seams[Sika Bituseal T-140SG or equivalent] on Bituminous Primer[Shell Flintkote Black Primer or equivalent]	Toilet IB-2B	8.86	m²					
	Cementitious Waterproofing Slurry, One Component, 2 coats [Bostik Powerseal or	KA Toilets	37.93	m²					
	equivalent]								
07 21 00	Thermal Insulation								
	50mm Wall Thermal and Acoustic Glass Fiber Batt Insulation (SCG TMA50 Thermoacoustic Insulation or equivalent)	For Wall Type 01- IB	178.46	m²					
	50mm Wall Thermal and Acoustic Glass Fiber Batt Insulation (SCG TMA50	For Wall Type 01- KA	93.96	m²					
	Thermoacoustic Insulation or equivalent)	Tor Wall Type 01-104	33.30						
07 90 00	Joint Protection								
	Polyurethane Sealant, Low VOC[Pioneer Pro Flex-o-Seal Sealant]	All caulking and jointing works	50.00	tubes					
	DIVISION 7 SUBTOTAL								
08 00 00	DIVISION 08 - DOORS & WINDOWS								
08 11 00	Metal Doors and Frames								
	D-02- 0600mm x 1800mm 45mm Thk door, Galvanized Panel with honeycomb Insulation,with Galvanized 50mmx75mm Door Frame - Single Rabbet(LEC Steel Doors or equivalent); include: ; 300mm x 400mm Louver, Double Entrance Deadlock Stainless Steel[Direct Hardware of equivalent] include 2°x 4.5mm Steel angle bar door stiffener around door jamb connected to floor and ceiling as needed	All Janitor's Closet(Slop Sink) and Storage	6	set					
	finish (Yale or equivalent)], Privacy Lockset [Heavy Duty, Satin Nickel Finish, Lever Type] include 2*x 4.5mm Steel angle bar door stiffener around door jamb connected to floor and ceiling as needed	IB-2A (VCA and OUR Admin Toilet)	2	set					
	D-04- 1000x2100mm 45mm Thk door, Galvanized Panel with honeycomb Insulation,with Galvanized 50mmx100mm Door Frame - Single Rabbet(LEC Steel Doors or equivalent); include: 300mm x 400mm Louver, Satin Chrome Finish	IB and KA PWD toilets	2	set					
			1						
08 40 00	Entrances Storefronts and Curtain Walls								
	Entrances, Storefronts and Curtain Walls Wall Type 04-12mm Tempered Frosted Glass with 100mm Aluminum	IB Toilets	21	m²					
	Wall Type 04-12mm Tempered Frosted Glass with 100mm Aluminum Powder Coated Mullions with high grade silicone sealant Wall Type 04-12mm Tempered Frosted Glass with 100mm Aluminum		21						
	Wall Type 04-12mm Tempered Frosted Glass with 100mm Aluminum Powder Coated Mullions with high grade silicone sealant	IB Toilets KA Toilets	21	m² m²					

	DIVISION 8 SUBTOTAL										
09000	DIVISION 9- FINISHES										
	*INCLUDE WASTAGE INTO MATERIAL UNIT COSTS										
09 20 00	Plaster and Gypsum Board										
	9mm Fiber Cement Board between boards [(SCG Smartboard, Hardiflex Pro or										
		IB toilets-Wall Type 01	358.00	m²							
	equivalent)] include 12mm expansion bolt connectors at top & bottom										
	9mm Fiber Cement Board between boards [(SCG Smartboard, Hardiflex Pro or										
		IB toilets- Wall Type 03	54.00	m²							
	equivalent)] include 12mm expansion bolt connectors at top & bottom										
	9mm Fiber Cement Board between boards [(SCG Smartboard, Hardiflex Pro or										
	equivalent) screw and joint compounds: Polyurethane Sealant (Pioneer or	KA toilets-Wall Type 01	165.16	m²							
	equivalent)] include 12mm expansion bolt connectors at top & bottom 9mm Fiber Cement Board between boards [(SCG Smartboard,Hardiflex Pro or										
	equivalent) screw and joint compounds: Polyurethane Sealant (Pioneer or	KA Toilets- Wall Type 03	54.80	m²							
	equivalent) screw and joint compounds. Polydreinane Searant (Pioneer of equivalent)] include 12mm expansion bolt connectors at top & bottom	KA Tollets- wall Type 03	54.60	10 -							
	9mm Fiber Cement Board between boards [(SCG Smartboard, Hardiflex Pro or										
	equivalent) screw and joint compounds: Polyurethane Sealant (Pioneer or	IB toilets-Wall Type 06 (Janitor's	17.42	m²							
	equivalent) screw and joint compounds. Polydreinane Searant (Pioneer of equivalent)] include 12mm expansion bolt connectors at top & bottom	Closet, Slop Sinks)									
	9mm Fiber Cement Board between boards [(SCG Smartboard, Hardiflex Pro or		1							1	
	equivalent) screw and joint compounds: Polyurethane Sealant (Pioneer or	KA Toilets- Wall Type 06 (Janitor's	2.21	m²							
1	equivalent)] include 12mm expansion bolt connectors at top & bottom	Closet, Slop Sinks)									
	102mm Web 0.6mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom	Wall Type 01-IB	179.00	m²							
	attachments and rivet connections	Wail Type 01-1D	179.00								
	102mm Web 0.6mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom	Wall Type 01-KA	82.58	m²							
	attachments and rivet connections 75mm Web 0.4mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom										
	attachments and rivet connections	Wall Type 03-IB	54.00	m²							
	75mm Web 0.4mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom										
	attachments and rivet connections	Wall Type 03-KA	54.80	m²							
	75mm Web 0.4mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom	W-II T 00 ID	0.74	m²							
	attachments and rivet connections	Wall Type 06-IB	8.71	m²							
	75mm Web 0.4mm Metal Stud Framing 600mm H x 400mm V OC include top and bottom	Wall Type 06-KA	1.11	m²							
	attachments and rivet connections										
00 50 00	Ceilings									-	
09 50 00	Ceiling Type 1- 12mm Moisture Resistant Gypsum Board	IB	146.09	m²							
	Ceiling Type 1 - Ceiling Suspension Metal Joist 0.5mm 41mm 600mm OC	ID	140.03	111-							
		IB	146.09	m²							
	OC include, Corner Angles, hanger rods, expansion bolts)										
	Defended Development of a construction of the state of th	IB									
	equivalent)	IB	7.00	рс							
	Ceiling Type 1- 12mm Moisture Resistant Gypsum Board	КА	37.81	m²							
	Ceiling Type 1 - Ceiling Suspension Metal Joist 0.5mm 41mm 600mm OC		I								
		KA	37.81	m²							
	OC include, Corner Angles, hanger rods, expansion bolts)		ļ								
	Perforated Panel Manhole, 600mmx600mmx0.70mm, Bone White(JEA Steel or equivalent)	KA	2.00	рс							
			<u> </u>		1			ł		ł	
00 03 60	Flooring		ł							+	
03 00 00	*INCLUDE WASTAGE INTO MATERIAL UNIT COSTS		1							1	
-	FLOOR TYPE 01- 600mmx600mmx10mm Non-Slip Homogenous Floor Tile Stain		1				1		1	1	
1		IB Toilets	101.00	m²							
	grout and Tile Adhesive + Silicone Expansion Joints)										
	FLOOR TYPE 01- 600mmx600mmx10mm Non-Slip Homogenous Floor Tile Stain		1							1	
1	Resistant High Quality (Huanqui BXT2701E Iskar Coffee or equivalent) (include	KA Toilets	37.93	m²							
	grout and Tile Adhesive + Silicone Expansion Joints)										
09 70 00	Wall Finishes										
	WALL TYPE 05-300mmx600mm Homogenous Stain Resistant Ceramic Wall										
		IB Toilets	306.00	m²							
	(include grout and Tile Adhesive + Silicone Expansion Joints)		1			1	1		1		

	WALL TYPE 05-300mmx600mm Homogenous Stain Resistant Ceramic Wall										
	Tile - High Quality - Class 1 (Cotto GI Taupe Pol 30x30 or equivalent brand)	KA Toilets	103.31	m²							
	(include grout and Tile Adhesive + Silicone Expansion Joints)										
09 90 00	Painting and Coating										
	3mm High Perfomance High-Performance Acrylic Skimcoat [Boysen Konstrukt or	All sum as a discussion in ID	10.10	m²							
	equivalent]	All exposed concrete-IB	16.40								
	3mm High Perfomance High-Performance Acrylic Skimcoat [Boysen Konstrukt or	All exposed concrete-KA	8.16	m²							
	equivalent]	•	8.10	111-							
	Semi-Gloss Acrylic Based Solvent Paint Finish (includes Preparation, 1 Coat Flat Primer, 2	All Exterior Walls-SRC Panels,									
	Coats Finish Class AAA Finish)[Boysen Acrytex, Davies Liquidtile or equivalent]	Fibercement Board Walls, Concrete	61.50	m²							
		Columns									
	Semi-Gloss Acrylic Based Solvent Paint Finish (includes Preparation, 1 Coat Flat Primer, 2	All Exterior Walls-SRC Panels,	70.07								
	Coats Finish Class AAA Finish)[Boysen Acrytex, Davies Liquidtile or equivalent]	Fibercement Board Walls, Concrete Columns-KA	70.27	m²							
		All Interior Walls-SRC Panels.									
	Semi-Gloss Latex Paint Finish (includes Preparation, 1 Coat Flat Primer, 2 Coats Finish	Fibercement Board Walls, Concrete	71.70	m²							
	Class AAA Finish)	Columns-IB	71.70								
		All Interior Walls-SRC Panels,									
	Semi-Gloss Latex Paint Finish (includes Preparation, 1 Coat Flat Primer, 2 Coats Finish	Fibercement Board Walls, Concrete	30.73	m²							
	Class AAA Finish)	Columns-KA									
	Flat Latex Paint Finish (includes Preparation, 1 Coat Flat Primer, 2 Coats Finish Class	All late days and Ended an Online and D	4 40 00	m²							
	AAA Finish) on prepared Plasterboard Walls - 09250.C3	All Interior and Exterior Ceilings-IB	142.02	m²							
	Flat Latex Paint Finish (includes Preparation, 1 Coat Flat Primer, 2 Coats Finish Class	All Interior and Exterior Ceilings-KA	37.80	m²							
L	AAA Finish) on prepared Plasterboard Walls - 09250.C3		31.00								
	DIVISION 9 SUBTOTAL										
10000	DIVISION 10- SPECIALTIES										
10 14 00	Signage										
	Restroom Signage, Panaflex Signage, Acrylic	IB	8.00								
		КА	2.00	lot		_					
10 22 00	Partitions										
	* all partition accessories are STAINLESS STEEL, WALL BRACKETS,										
	SELF CLOSING HINGES, INDICATOR LOCKSET, COAT HOOK, KNOB - HANDLE,										
	TOP RAIL, L-BRACKET										
	900x1500mm Toilet Stall 12mm THK Phenolic Black Core Compact Board or equivalent										
	[Stainless Steel Accessories Included]	All toilets	19.00	set							
	Urinal Screen 0400 x 900 x 12mm Phenolic black-core compact board or equivalent										
	Stainless Steel Accessories Included	IB and KA Men's Toilets	5.00	set							
10 28 00	Toilet, Bath, and Laundry Accessories										
	TD Stainless Steel Towel Dispenser	All toilets	12.00	pc							
	TH Stainless Steel Toilet Tissue Dispenser	All toilets	23.00								
	HD Hand Dryer 300(W)x219(D)x670mm(H)Automatic Hand Dryer with Drain Pan,						1		1		
	Wall Mounted, 110m/s Air Velocity, Infra-red motion sensor [KDK T90AC or	All toilets	3.00	рс		1					
	equivalent]										
	GB-1 Garbage Bin, Stainless Steel Waste Receptacle, 8L Capacity[JVD or										
	equivalent]	All toilet stalls	23.00	pc		1					
	GB-2 Garbage Bin, Double Layer, Rectangular,10L Capacity[JVD WBU 300 523	All public lovetony areas	8.00								
	or any equivalent]	All public lavatory areas									
	SD Stainless Steel Liquid Soap Dispenser [Kasch YS-5841 or equivalent]	All toilets	12.00	рс							
	SD Automatic Sensor Liquid Soap Dispenser, Brushed Nickel Finish	PWD Toilet	2.00	DC							
	[Simplehuman or equivalent]		2.00	pc							
	GRB-1 36" Length Stainless Steel Grab Bar[Kasch YS-601-500 or equivalent]	IB-1A Toilet and KA PWD Toilets	2.00	nc							
			2.00	pc							
	GRB-2 42" Length Stainless Steel Grab Bar[Kasch YS-601-500 or equivalent]	Toilet IB-1A and KA Toilets	2.00	рс		1					
			1.00	po							
1	Comm Class Mirror Develoring with Felt Denser on 40mm this Westherman & Marine Discussed	IB and KA PWD and private toilets	4.00	рс		1					
	6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood				1	1	1	1	1	1	
	(800x1000mm); include Sealants and jointing compounds	ib and RAT WD and private tonets	4.00								
	(800x1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood	IB toilets and KA Men's toilet	6.00	рс							
	(800x1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood (1700mm x 1000mm); include Sealants and jointing compounds	B toilets and KA Men's toilet	6.00	-							
	(800x1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood (1700mm x 1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine			-							
	(800x1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood (1700mm x 1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood(2300mm x 1000mm); include Sealants and jointing compounds	IB toilets and KA Men's toilet KA Ladies' Toilet	6.00 1.00	pc							
	(800x1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine Plywood (1700mm x 1000mm); include Sealants and jointing compounds 6mm Glass Mirror Beveled, with Felt Paper on 12mm thk Weatherproof Marine	B toilets and KA Men's toilet	6.00	pc							

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National is accord Normal	10 20 00	Interior Specialties										
National is accord Normal		Wall Mounted Horizontal Diaper Changing Station 33.25"Lx21.5"Wx4"H, Color Off White										
Image: special			IB-1A PWD toilet	1.00	pc							
Bit Lands law parse is 000 par												
Bit Lands law parse is 000 par	10 50 00	Starana Susaiakiaa									1	
is approximation and particular synthesis and p	10 50 00	Storage Specialities										
is approximation and particular synthesis and p		18mm Laminated Marine Plywood include 50mmx50mm S4S KD Timber Framing, include										
Model of all o			IB and KA Janitor's Closets	2.40	m²							
Set is a problem intermed in the set is a problem intermed intermed in the set is a problem intermed intermed intermed in the set is a problem intermed in		r coat primer, grazing putty and z rayers Quick dry enamer top coat										
Set is a problem intermed in the set is a problem intermed intermed in the set is a problem intermed intermed intermed in the set is a problem intermed in												
Set is a problem intermed in the set is a problem intermed intermed in the set is a problem intermed intermed intermed in the set is a problem intermed in		DIVISION 10 SUBTOTAL										
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II 10 Werke sponder spander lange la												
Product 160												
Strands												
approximpimportant <td></td> <td>Pendent 155F w/ recessed Type Escutcheon Sprinkler Head, Standard Response, 1/2"npt,</td> <td></td>		Pendent 155F w/ recessed Type Escutcheon Sprinkler Head, Standard Response, 1/2"npt,										
approximpimportant <td></td> <td>1/2"orrifice, Bulb Type, Chrome Finished, UL/FM Approved(Viking 12987FB/vk102) or</td> <td>IB Blda</td> <td>22.00</td> <td>DC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1/2"orrifice, Bulb Type, Chrome Finished, UL/FM Approved(Viking 12987FB/vk102) or	IB Blda	22.00	DC							
n n n n n n n n n n n n n n n n n n n n n n n n n n n <td></td> <td></td> <td>- 5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			- 5									
Bornell (1) GNC Pack Part required band) Bidg. R400 P C<												
Bornell (1) GNC Pack Part required band) Bidg. R400 P C<			ID DI 4									
Problem									ł – – – – – – – – – – – – – – – – – – –	ł – – – – – – – – – – – – – – – – – – –	ł	
Circle 20mm(1)*PVC Fingue2VC Bisensite or equivaler trand)B blg.700pNNN <td></td> <td>25mmØ (1") cPVC Pipe (cPVC Blazemaster or equivalent brand)</td> <td>IB Bldg.</td> <td>24.00</td> <td>рс</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L</td> <td></td>		25mmØ (1") cPVC Pipe (cPVC Blazemaster or equivalent brand)	IB Bldg.	24.00	рс						L	
Circle 20mm(1)*PVC Fingue2VC Bisensite or equivaler trand)B blg.700pNNN <td></td> <td>L</td>												L
Circle 20mm(1)*PVC Fingue2VC Bisensite or equivaler trand)B blg.700pNNN <td></td> <td>cPVC Wet System Pipe Fitting (cPVC Blazemaster or equivalent brand)</td> <td></td>		cPVC Wet System Pipe Fitting (cPVC Blazemaster or equivalent brand)										
Closs Zerrit'PAC Principle/C Binardiar equident standB Big.75000			IB Bldg.	4 00	nc				1	1	1	
Book 07 20mm (PyC) FiltergalPyC BiltergalPyC 9 (1) (2) (2) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4							ł		ł	ł	ł	1
Babbing Roduct Signation 25mm 25mm 25mm 25mm 25mm 25mm 25mm 25m		Closs Zomm() (CEVC Fitting(CEVC blazemaster or equivalent brand)							ł	ł	ł	
bandb		Elbow 90° 25mm(1")cPVC Fitting(cPVC Blazemaster or equivalent brand)	IB Bidg.	25.00	рс							
Image: problem intermed for the problem intermed and pr			IB Bldg	4 00	pc.							1
handh		brand)	D Didg.	4.00	pc							
handh												
handh		Tee 25 mma-25 mma-25 mma(1"x1"x1")cPVC Fitting(cPVC Blazemaster or equivalent										
Image: special const. Cons. Spice Connert, Maxy BoderAASTM F-433 Image: special const. Spice Connert, Cons. Spice Connert, Cons. Spice Connert or aguivalent trand). Image: special const. Spice Connert or aguivalent trand). Image: spice Connert or aguival			IB Bldg.	7.00	pc							
Complande/vC Bizemater Pipe Cannot or equivalent trand)IndiceI		bialiu)										
Complande/vC Bizemater Pipe Cannot or equivalent trand)IndiceI												
Compliandle-/C. Subtradier Piele Control (c)Compliandle-/C.		Weld-On Fire Sprinkler Cement, One Step Cement, Heavy Bodied, ASTM F-493		10.00	nint							
Accessories fur Lybarpe, Expansion Bobbi include LaborIndextIndexInd				10.00	Pin							
Accessiones in coupling legistration only include Labor 22 000 DVISION 22-PLUMBING France France <td></td> <td></td> <td></td> <td>4.00</td> <td>lot</td> <td></td> <td>NI/A</td> <td></td> <td></td> <td></td> <td></td> <td></td>				4.00	lot		NI/A					
Image: space of the space of		Accessories (ie U-Clamps, Expansion Bolts) include Labor		1.00	101		IN/A					
Image: space of the space of		DIVISION 21 SUBTOTAL										
Manage Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are veteri												
Manage Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are veteri												
Manage Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are interval PAPR Pigos dimensions are veterior Image Age dimensions are veteri												
Image: second	22 00 00	DIVISION 22- PLUMBING										
Image: second												
Accessories (ie U-Clamps, Expansion Bolts) INCLUDE LABORInclIn		*All Sanitary Pipe dimensions are interior, all PPR Pipes dimensions are exterior										
Accessories (ie U-Clamps, Expansion Bolts) INCLUDE LABORInclIn												
Accessories (ie U-Clamps, Expansion Bolts) INCLUDE LABORInclIn												
Accessories (ie U-Clamps, Expansion Bolts) INCLUDE LABORInclIn		Disis Association Installation Association Discuttered and Mall Oceanomics										-
22 1000 Facility Water Distribution Image: Construction of the construction of t		Piping Accessories, Installation Accessories, Pipe Hanger and Wall Connection		1.00	lot							
221117 Domesic Water Piping Incl <									l	l	l	
PR PN20 Pipe (All PN20) POTABLEImage of the potential of the poten												
20mm0 PPR Pipe PN20 [Nettex, Belden, Attanta or equivalent]IB Bldg.98.52Im <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L</td> <td>L</td> <td></td> <td>1</td>									L	L		1
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20mm@ Cap PN20 KA Blg. 1.00 pc Image: Second												
20mm@ Cap PN20 KA Blg. 1.00 pc Image: Second		20mmø Cap PN20	IB Bldg.	4.00	pc							
PPR Pipe Accessory (All PN20) - POTABLE WATER Image: Constraint of the system of t			KA Bldg.	1.00	DC							
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		Check Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	IB Bldg.	4.00	рс							
		Globe Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	KA Bldg.	1.00	pc							
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2	Recycled Water Piping			T						
2	PPR PN20 Pipe (All PN20) - RECYCLED									
	20mmØ PPR Pipe PN20 [Neltex, Belden, Atlanta or equivalent]	IB Bldg.	77.60	lm		İ	İ			
-			59.88	Im						
2	20mmØ PPR Pipe PN20 [Neltex, Belden, Atlanta or equivalent]	KA Bldg.	59.88	Im						
F	PPR PN20 Pipe and Fittings (All PN20) - RECYCLED WATER									
2	20 mmø-20 mmø Elbow PN20 [Neltex, Belden, Atlanta or equivalent]	IB Bldg.	46.00	pc						
2	20 mmø-20 mmø Elbow PN20 [Neltex, Belden, Atlanta or equivalent]	KA Bldg.	21.00	pc						
ŕ	to nime zo nime Elbow i Nzo [Nellex; Belden; Allanta of equivalent]	To t Didg.	21.00	pe						
	20 mmø-20 mmø-20 mmø Tee PN20 [Neltex, Belden, Atlanta or equivalent]	IB Bldg.	37.00	рс						
2	20 mmø-20 mmø-20 mmø Tee PN20 [Neltex, Belden, Atlanta or equivalent]	KA Bldg.	9.00	pc						
2	20mmø Cap PN20 [Neltex, Belden, Atlanta or equivalent]	IB Blda.	4.00	pc						
	20mmø Cap PN20 [Neltex, Belden, Atlanta or equivalent]	KA Bldg.	1.00	pc						
	commø Gap Finzo [Neitex, Beiden, Atlanta of equivalent]	KA Blug.	1.00	ρc						
F	PPR Pipe Accessory (All PN20) - RECYCLED WATER									
0	Gate Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	IB Bldg.	4.00	pc						
0	Check Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	IB Bldg.	4.00	pc						
	Gate Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	KA Bldg.	1.00	pc						
	Check Valve Threaded 20mmØ-20mmØ [Kitz or equivalent]	KA Bldg.	1.00	рс		L	 L			l
22 13 00 F	Facility Sanitary Sewerage						 			
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	Sanitary Waste and Vent Piping (All Series 1000)									
5	50mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	IB Bldg.	105.59	lm	-					
E	50mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	KA Bldg.	54.67	lm						
		· · · = · = g.								
	Sanitary Vent Fittings (All Series 1000)									
5	50 mmø-50 mmø Elbow 90 Deg Series 1000 (Atlanta or equiv.)	IB Bldg.	132.00	рс						
5	50 mmø-50 mmø Elbow 90 Deg Series 1000 (Atlanta or equiv.)	KA Bldg.	22.00	рс						
		-								
6	50 mmø-50 mmø-50 mmø Tee Sanitary Series 1000 (Atlanta or equiv.)	IB Bldg.	45.00							
				рс						
5	50 mmø-50 mmø-50 mmø Tee Sanitary Series 1000 (Atlanta or equiv.)	KA Bldg.	14.00	рс						
9	Sanitary Black									
	100mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	IB Bldg.	77.59	lm						
	100mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	KA Bldg.	34.40	lm						
	rooming FVC Samary Fipe Series 1000 (Adama of equiv.)	KA Blug.	34.40			-	-			
	100 mmø-100 mmø Bend Long Sweep or 2 45 deg bends Series 1000 [Atlanta or	IB Bldg.	9.00	pc						
	equivalent]	ib bidg.	5.00	ρc						
1	100 mmø-100 mmø Bend Long Sweep or 2 45 deg bends Series 1000 [Atlanta or	KA DI-	4.00							
	equivalent]	KA Bldg.	4.00	pc						
			0.00							
	100 mmø Cap Series 1000 [Atlanta or equivalent]	IB Bldg.	8.00	рс			<u> </u>			
1	100 mmø Cap Series 1000 [Atlanta or equivalent]	KA Bldg.	1.00	рс						Į
	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent]	IB Bldg.	33.00	рс			 			
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		KA Blda.	8 00	pc						
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1	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent]	KA Bldg.	8.00	рс						
1	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent] Sanitary Grey									
1 S	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent] Sanitary Grey 30mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	IB Bldg.	91.25	Im						
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1 S	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent] Sanitary Grey 30mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	IB Bldg.	91.25	Im						
1 5 8 8 8	100 mmø-100 mmø-100 mmø Wye 45 Deg Series 1000 [Atlanta or equivalent] Sanitary Grey 30mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.) 30mmØ PVC Sanitary Pipe Series 1000 (Atlanta or equiv.)	IB Bidg. KA Bidg.	91.25 33.71	lm Im						
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	Floor Drain Bronze Alloy Industrial Quality 150 x 150mm with Strainer - 50mm Drain (Kasch, Pozzi brand or equivalent)	KA Toilets	5.00	рс						
-	Floor Drain Bronze Alloy Industrial Quality 125mmx125mm with Strainer - 50mm Drain	KA TOIlets	5.00					<u> </u>		
	(Kasch, Pozzi brand or equivalent)	All Toilets	15.00	pc						
22 40 00	Bathroom Suites						-	ł	ł	
22 40 00								<u> </u>	<u> </u>	
	Close Coupled Elongated Toilet, Dual FLush, 3/4.5LPF Double Flush System									
	(American Standard Concept Cube 2630 or equivalent)		23.00	pc						
	Rinsing Spray Stainless Steel 304[BS2-002 Douche American Standard or Equivalent]	All toilets	23.00	рс						
	(1)Push Type Pop-Up, (1)Stainless P-Trap, (1) Angle Valve, (1)Flexible Hose(American Standard or equivalent)		23.00	рс						
	Urinal, Wall Hung with Anti-Bac Glaze[American Standard New Washbrook 6502 or equivalent] - include F501 Urinal Flush Valve, Push Button Type [American Standard Mass 5010 or equivalent]	All Men's Toilet incl. OUR Admin toilet	9.00	рс						
	Semi Pedestal Lavatory 550mm x 460mm x 430mm with fixing bolt set	All toilets	20.00	рс						
	[American Standard Concept Cube 0550/0740 or equivalent] Mono Faucet, 102mm Spout L x 68mm Spout H x 98mm [American Standard Loft Single Hole TJ57 or equivalent]	All toilets except IB-1A and KA PWD toilets	21.00	PC						
	Sensor Faucet, AC [American Standard Selectronic Casted Spout Sensor	IB-1A and KA PWD toilets	2.00	рс						
	Faucet 8815 or equivalent]							<u> </u>	<u> </u>	
<u> </u>	Slop Sink Assembly					İ				
	0550mmW x700mm D x400mm H - 75mm Thk Reinforced Concrete Slopsink, Stainess Steel Finish 304 Gauge 11(3mm)(Incl. Accessories; Stainless Steel Hose bibb + Slop sink drain w/ strainer + waterproof Sealant on Edges)	KA Janitor's Closet	1.00	рс						
	0550mmW x800mm D x400mm H - 75mm Thk Reinforced Concrete Slopsink, Stainess Steel Finish 304 Gauge 11(3mm)(Incl. Accessories; Stainless Steel Hose bibb + Slop sink drain w/ strainer + waterproof Sealant on Edges)	Toilet IB-2B	1.00	рс						
	900mm x 500mm x400mm H 75mm Thk Reinforced Concrete Slopsink, Stainess Steel Finish 304 Gauge 11(3mm)(Incl. Accessories; Stainless Steel Hose bibb + Slop sink drain w/ strainer + waterproof Sealant on Edges)	Toilet IB-1A, IB-2A, and IB-1B	3.00	рс						
	DIVISION 22 SUBTOTAL									
23 00 00	DIVISION 23- HEATING VENTILATING AND AIR CONDITIONING(HVAC)									
23 00 00										
23 30 00	Heating and Ventilating Equipment									
	Ceiling Mount Exhaust Fan 270 x 270mm, 2-Speed selectable, Super Low Noise Structure, Air Volume 200m3/h(KDK 24CHF or equivalent)	IB	13.00	рс						
	100mm(4") Stainless Pipehood with Screen(include screws)[Mitsui or equivalent]	IB	11.00	рс						
	100mm(4") 2-Layer Non-insulated- Flexible Duct(include ceiling attachments at 2m spacing) (3m per piece) [Mitsui or equivalent]	IB	12.00	рс						
	Ceiling Mount Exhaust Fan 270 x 270mm, 2-Speed selectable, Super Low Noise Structure, Air Volume 200m3/h(KDK 24CHF or equivalent)	KA	4.00	рс						
	100mm(4") 2-Layer Non-insulated- Flexible Duct(include ceiling attachments at 2m spacing) (3m per piece) [Mitsui or equivalent]	KA	9.00	рс						
	100mm(4") Stainless Pipehood with Screen(include screws)[Mitsui or equivalent]	KA	4.00	рс						
	DIVISION 23 SUBTOTAL									
26.00.00	DIVISION 26- ELECTRICAL							<u> </u>	<u></u>	
26 00 00	DIVISION 20- ELECTRICAL									
26 05 19	LOW VOLTAGE POWER CONDUCTORS AND CABLES								1	
	THHN Electrical Wire 3.5 mm ² [Phelps Dodge or equivalent]	IB and KA Toilets	570.00	lm						
	THHN Electrical Wire 2.0 mm ² [Phelps Dodge or equivalent]	IB and KA Toilets	210.00	lm						
	TW Electrical Wire 2.0mm ² [Phelps Dodge or equivalent]	IB and KA Toilets	73.00	lm					L	
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00.05.05										
26 05 33	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS Conduit for Electrical Systems							<u> </u>		

15mmØ PvC Pipe for electrical [Atlanta or equivalent] 15mmØ Flexible Metallic Conduit 15mmØ Flexible Metallic Conduit Connector	IB and KA Toilets	155.00	pc				
			P0				
15mmØ Flexible Metallic Conduit Connector	IB and KA Toilets	97.00	lm				
	IB and KA Toilets	97.00	pc				
	15 dild for Folioto		P.*				
BOXES FOR ELECTRICAL SYSTEMS							
Utility Boxes PVC [Omni or equivalent]	IB and KA Toilets	101.00	рс				
Junction Boxes PVC with cover [Omni or equivalent]	IB and KA Toilets	33.00	рс				
Electrical Installation Accessories	IB and KA Toilets	1.00	lot				
26 27 26 WIRING DEVICES							
Passive Infrared wallbox occupancy sensor, Single Relay, photocell controlled, Low profile, 180 degree field of view, 2100 sq ft, Adjustable Blinders, Time Delay 30s-30m. 120/208/220/230/240/277VAC, 50/60Hz, AutoON/ManualON selectable, CEC Title 20/24 Compliant, UL Listed, RoHS Compliant, Color: White [Leviton LevLok or equivalent]	IB and KA Toilets	12.00	set				
24V Passive Infrared (PIR)Wall Switch Sensor. Occupancy (auto-on) and Vacancy (manual-on) operating modes, 1 relay mode for single-level switching, 1,000 square-foot, 180 degree coverage. 24VDC, no minimum load requiremen zero arc point switching. Title 24 and IECC and ASHRAE 90.1 Compliant. UL an cUL Listed. Color: White [Leviton LevLok or equivalent]		5.00	set				
Occupancy Sensor, Ceiling Mounted, Multi-technology, 24VDC, 25mA power consumption, 500 sq ft, 180 degree (major motion: PIR:20' radius; U/S: 23'Lx23'W, minor motion: U/S: 17'Lx17'W), red LED=PIR, green LED=U/S, auto adapting, walk-through, time delay 30s-30m, test mode (6s time delay for 15m with auto exit), connect gray wire for photocell ambient light hold-off, 360 degree harmonic wheel (rotatable), mounting height 8'-10', cUL/NOWANCE listed, CEC Title 24 compliant. Color: off-white. [Leviton LevLok or equivalent]	IB and KA Toilets	13.00	set				
20A CE Power Pack for Occupancy Sensors, features include Auto ON, Manual ON, Local Switch, Latching Relay; Line Voltage Input: 230VAC +/10%, 50/60Hz; Low Voltage: Input-24VDC, 2mA, Output-24VDC, 225mA. Housing: Surface Mount, ROHS Compliant, Title 24 Compliant, ASHRAE 90.1 Compliant, Color: Gray [Leviton LevLok or equivalent]	IB and KA Toilets	14.00	set				
Convenience Outlet							
2-Gang Conveniece Outlet Wide Type White (Universal Outlet)[Schneider, Panasonic Wide Series or equivalent]	IB and KA Toilets	12.00	рс				
26 51 00 INTERIOR LIGHTING							
All lighting includes luminaires - color temperature to be determined upon approval of	IB and KA Toilets						
products	IB and KA Tollets						
LED Recessed Can 150mmØ Downlight -High Quality with LED Luminaire 6W with a minimum of 60 Lumens/watt at least 80 CRI,Warm White	IB and KA Toilets	48.00	assy				
		4.7.7.7				1	
LED Recessed Can 75mmØ Downlight -High Quality with LED Luminaire 3W, Warm Whit	e IB and KA Toilets	19.00	assy				
DIVISION 26 SUBTOTAL		1					
28 00 00 ELECTRONIC SAFETY AND SECURITY				 	 	 	
28 30 00 Fire Detection and Alarm System (Roughing-ins Only)							
1.5mm2 TF Wire, Pair [Phelps Dodge or equivalent]	IB and KA Toilets	182.00	lm				
15mmØ EMT Pipe	IB and KA Toilets	65.00	рс				
15mmØ EMT Elbow	IB and KA Toilets	33.00	pc				
15mmØ EMT Coupling	IB and KA Toilets	14.00	pc			1	1
15mmØ EMT Straight Connector	IB and KA Toilets	32.00	pc			1	
15mmØ FMC Conduit	IB and KA Toilets	16.00	Im				
15mmØ FMC Connector	IB and KA Toilets	16.00		 	 	 	
LIDITITIAL END CONDECTOR			рс	 	 	 	l
	IB and KA Toilets	16.00	рс				
Junction Box PVC [Omni or equivalent]	- I	1.00	lot				
	IB and KA Toilets	1.00	101				
Junction Box PVC [Omni or equivalent] FDAS Accessories (PVC pipe Adapter, PVC Solvent Cement, Clamp, Tox and Screws and etc.)	IB and KA Toilets	1.00		 			
Junction Box PVC [Omni or equivalent] FDAS Accessories (PVC pipe Adapter, PVC Solvent Cement, Clamp, Tox and Screws	IB and KA Toilets	1.00					
Junction Box PVC [Omni or equivalent] FDAS Accessories (PVC pipe Adapter, PVC Solvent Cement, Clamp, Tox and Screws and etc.)	IB and KA Toilets	1.00					
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