

Republic of the Philippines
Department of Science and Technology
PHILIPPINE SCIENCE HIGH SCHOOL-BICOL REGION CAMPUS
Tagongtong, Goa, Camarines Sur

SUMMARY OF BILL OF QUANTITIES

NAME OF PROJECT: _____

LOCATION: _____

BIDDER: _____

| ITEM NO. | DESCRIPTION | TOTAL COST |
|----------|---|------------|
| I | FIBER OPTIC CABLING SYSTEM WITH STAR TOPOLOGY DESIGN | _____ |
| II | STRUCURED CABLING | _____ |
| III | SUPPLIES AND INSTALLATION OF INFORMATION BOARD SYSTEM | _____ |
| IV | UPGRADING OF PABX | _____ |
| V | RENOVATION OF SERVER ROOM | _____ |
| VI | SUPPLY AND INSTALLATION OF CLOSED CIRCUIT TELEVISION (CCTV) | _____ |
| VII | INSTALLATION AND ENGINEERING WORKS | _____ |

TOTAL BID COST: _____

AMOUNT IN WORDS: _____

Submitted by:

Name of Bidder

Republic of the Philippines
 Department of Science and Technology
PHILIPPINE SCIENCE HIGH SCHOOL-BICOL REGION CAMPUS
 Tagongtong, Goa, Camarines Sur

BILL OF QUANTITIES

NAME OF PROJECT: _____

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BIDDER: _____

| ITEM NO. | DESCRIPTION | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|------|--------|-----------|------------|
| I | FIBER OPTIC CABLING SYSTEM WITH STAR TOPOLOGY DESIGN | | | | |
| | Installation of fiber optic Cabling. The Cabling System must be end- to-end solution and must satisfy or exceed the fiber cabling requirements for backbone of data and voice communication & CCTV. | | | | |
| | Materials | | | | |
| | 1. FOC 24-core Single mode | 2000 | meters | | |
| | 2. Messenger | 40 | meters | | |
| | 3. FDU 12 core | 15 | pcs | | |
| | 4. Pigtail for FDU | 100 | pcs | | |
| | 5. Patch cord | 70 | pcs | | |
| | 6. FOC Closure | 6 | pcs | | |
| | 7. Media Converter | 7 | units | | |
| | 8. SFP Transceiver SX Module | 15 | units | | |
| | 9. 13" 8 Port Managed Switch + 10 port SFP | 3 | units | | |
| | 10. IPv6 Managed 8-Port 10/100/1000mbps + 2 port | 7 | units | | |
| | 11. PVC Pipe PNS 2" | 350 | pcs | | |
| | 12. PVC long elbow 2" | 45 | pcs | | |
| | 13. PVCC Clamp 2" | 5 | pcs | | |
| | 14. AR5 Clip | 5 | packs | | |
| | 15. kim wipes | 1 | packs | | |
| | 16. U bolt | 1 | lot | | |
| | 17. Post for CCTV | 12 | pcs | | |
| | 18. Excavation and backfilling | | | | |
| | 19. Other materials needed to complete the item | | | | |
| | SUB TOTAL: | | | | |
| II | STRUCTURED CABLING | | | | |
| | Materials | | | | |
| | 1. Unshielded Twisted Pair (UTP) CAT-6 cables | 5 | boxes | | |
| | 2. CAT -6 RJ45 connector | 400 | pcs | | |
| | 3. Rubber boots for CAT-6 connectors | 400 | pcs | | |
| | 4. Information Outlet (CAT-6) | 70 | pcs | | |
| | 5. Face Plates | 70 | pcs | | |
| | 6. Patch panel | 4 | units | | |
| | 7. Patch cords | 70 | pcs | | |
| | 8. Cable management 1U | 4 | units | | |
| | 9. Switch (24 port manage switch) | 4 | units | | |
| | 10. IDF Closed Type Rack (Wall Mounted) | 1 | unit | | |
| | 11. PVC pipes | 40 | pcs | | |
| | 12. Plastic mouldings | 50 | pcs | | |
| | 13. Closed Type Rack 6 feet height x 800mm width x 11 | 1 | unit | | |
| | 14. Other materials needed to complete the item | | | | |
| | SUB TOTAL: | | | | |
| III | SUPPLIES AND INSTALLATION OF INFORMATION BOARD SYSTEM | | | | |
| | 1. Smart TV 55" (Compatible for networking) | 9 | units | | |
| | 2. Unshielded Twisted Pair (UTP) CAT-6 cables | 2 | boxes | | |
| | 3. Other materials needed to complete the item | | | | |
| | SUB TOTAL: | | | | |

| ITEM NO. | DESCRIPTION | QTY | UNIT | UNIT COST | TOTAL COST |
|-----------|---|-----|-------|-----------|------------|
| IV | IP-PABX (UPGRADING OF PABX) | | | | |
| | 1. Upgrading and Relocation of PABX system (Digital IP-PBX 30 Ports or Higher) | 1 | lot | | |
| | 2. Phone Unit | 27 | unit | | |
| | 3. Unshielded Twisted Pair (UTP) CAT-6 cables | 2 | Boxes | | |
| | 4. Other materials needed to complete the item | | | | |
| | SUB TOTAL: | | | | |
| V | RENOVATION OF SERVER ROOM | | | | |
| | Scope of Work | | | | |
| | 1. Replacement of existing windows | 1 | unit | | |
| | 2. Installation of Glass Partition | 1 | unit | | |
| | 3. Installation of ½ inch Tempered Glass Door with stainless handle | 1 | unit | | |
| | 4. Modular table and chair | 2 | sets | | |
| | 5. Installation of Cabinets and fixtures | 2 | units | | |
| | SUBTOTAL: | | | | |
| VI | SUPPLY AND INSTALLATION OF CLOSED CIRCUIT TELEVISION (CCTV) | | | | |
| | 1.Fixed Camera | 36 | units | | |
| | i. To be installed inside the corridor of identified buildings | | | | |
| | ii. IP Camera | | | | |
| | iii. HD resolution 1080 Video Output, 2MP Resolution | | | | |
| | iv. Image Sensor Progressive Scan CMOS | | | | |
| | v. Mechanical IR Cut Filter | | | | |
| | vi. Adaptive IR LED | | | | |
| | vii. Compression: H.264, MPEG-4 SP, MJPEG | | | | |
| | viii. Multi-Streaming: Dual Streaming | | | | |
| | ix. Network Connection : RJ45 | | | | |
| | x. ONVIF Compliant | | | | |
| | xi. Power Source: PoE CE, IP66, UL | | | | |
| | xii. Mounting bracket included | | | | |
| | 2. IP-Based PTZ Camera | 20 | units | | |
| | i. Installed outside of the building perimeter | | | | |
| | ii. HD Resolution 1080 Video Output, 2MP Resolution, 20X optical zoom, 16X digital zoom | | | | |
| | iii. PTZ Outdoor IP Camera | | | | |
| | iv. Image Sensor Progressive Scan CMOS | | | | |
| | v. Mechanical IR Cut Filter 20X optical zoom, 16X digital zoom | | | | |
| | vi. Adaptive IR LED | | | | |
| | vii. Compression: H.264, MPEG-4 SP, MJPEG | | | | |
| | viii. Multi-Streaming: Dual Streaming | | | | |
| | ix. Network Connection: RJ45 | | | | |
| | x. Environmental Casing: Weatherproof (IP68); Vandal proof (IK10) | | | | |
| | xi. ONVIF Compliant | | | | |
| | xii. Power Source: PoE CE, IP66, UL | | | | |
| | xiii. Mounting bracket included | | | | |
| | 3. Network Video Recorder (NVR) | 1 | set | | |
| | i. Specifications for software-based NVR compatible with windows platform. | | | | |
| | ii. Intel Xeon E5-2407 processor or Higher | | | | |
| | iii. 8GB DDR-1333 (2 x 4GB) memory or higher | | | | |
| | iv. 8TB storage or higher | | | | |
| | v. Ethernet 1GB 4-port 3661 Adapter network controller | | | | |
| | vi. Installed with windows Server Operating System | | | | |
| | vii. 2 x 3 channel with 8TB SATA HDD or higher | | | | |
| | viii. Surveillance HDD to accommodate 30 days retention (for 56 camera) | | | | |
| | SUBTOTAL: | | | | |

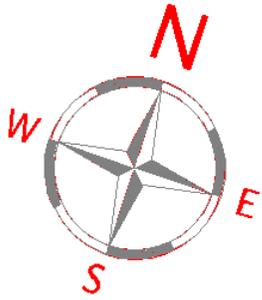
| ITEM NO. | DESCRIPTION | QTY | UNIT | UNIT COST | TOTAL COST |
|----------|---|-----|------|-----------|------------|
| VII | INSTALLATION AND ENGINEERING WORKS | | | | |
| | 1. Labor | 1 | lot | | |
| | 2. Testing & Commissioning | 1 | lot | | |
| | SUBTOTAL: | | | | |

TOTAL BID AMOUNT _____

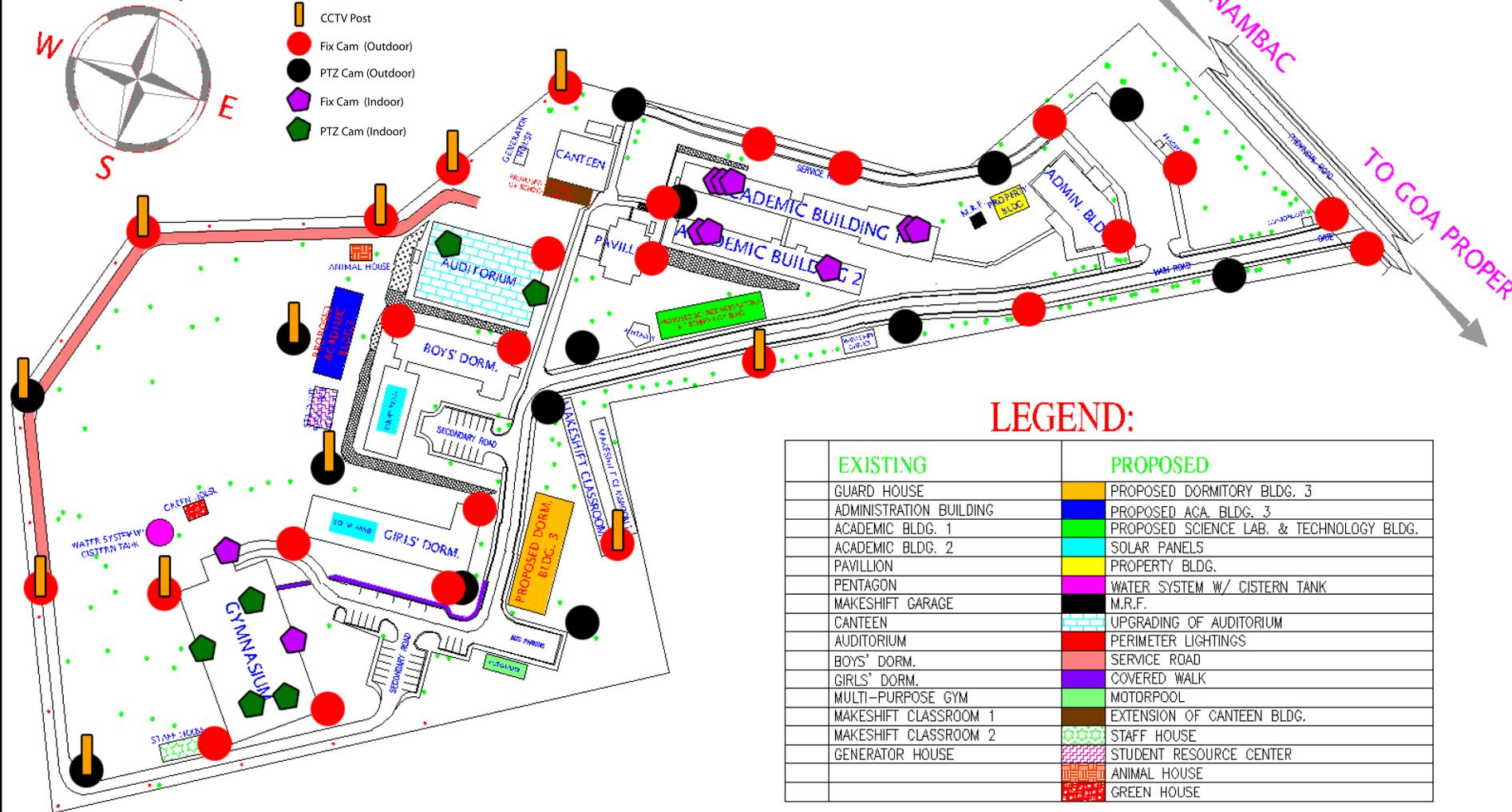
AMOUNT IN WORDS: _____

Proposed Location of CCTV

12 post, 26 Fixed Cam (Outdoor), 14 PTZ Cam (Outdoor), 6 PTZ Cam (Indoor), 10 Fixed Cam (Indoor)



- CCTV Post
- Fix Cam (Outdoor)
- PTZ Cam (Outdoor)
- Fix Cam (Indoor)
- PTZ Cam (Indoor)



LEGEND:

| EXISTING | PROPOSED |
|-------------------------|--|
| GUARD HOUSE | PROPOSED DORMITORY BLDG. 3 |
| ADMINISTRATION BUILDING | PROPOSED ACA. BLDG. 3 |
| ACADEMIC BLDG. 1 | PROPOSED SCIENCE LAB. & TECHNOLOGY BLDG. |
| ACADEMIC BLDG. 2 | SOLAR PANELS |
| PAVILLION | PROPERTY BLDG. |
| PENTAGON | WATER SYSTEM W/ CISTERN TANK |
| MAKESHIFT GARAGE | M.R.F. |
| CANTEEN | UPGRADING OF AUDITORIUM |
| AUDITORIUM | PERIMETER LIGHTINGS |
| BOYS' DORM. | SERVICE ROAD |
| GIRLS' DORM. | COVERED WALK |
| MULTI-PURPOSE GYM | MOTORPOOL |
| MAKESHIFT CLASSROOM 1 | EXTENSION OF CANTEEN BLDG. |
| MAKESHIFT CLASSROOM 2 | STAFF HOUSE |
| GENERATOR HOUSE | STUDENT RESOURCE CENTER |
| | ANIMAL HOUSE |
| | GREEN HOUSE |



SITE DEVELOPMENT PLAN

PHILIPPINE SCIENCE HIGH SCHOOL-BRC

LOCATION OF DATA AND VOICE STRUCTURED CABLING

FOR DATA

ACADEMIC BUILDING 1

Ground Floor

| | | |
|----------------------|---|----|
| - Registrar's office | - | 2 |
| - BAC office | - | 1 |
| - SSD office | - | 2 |
| - CISD office | - | 1 |
| - Discipline office | - | 1 |
| - Faculty Room | - | 24 |
| - Clinic | - | 1 |

2nd Floor

| | | |
|----------------------|---|----|
| - Publication office | - | 1 |
| - Guidance office | - | 2 |
| - School Paper Room | - | 1 |
| - Research Hub | - | 20 |

ACADEMIC BUILDING 2

Ground Floor

| | | |
|----------------|---|---|
| - Biology Lab | - | 1 |
| - Research Lab | - | 1 |
| - Chem Lab | - | 1 |
| - Physics Lab | - | 1 |

TOTAL: 60

FOR VOICE (IP-PABX)

ACADEMIC BUILDING 1

Ground Floor

- Registrar's office
- BAC office
- SSD office
- CISD office
- Discipline office
- Faculty Room
- Clinic

2nd Floor

- Publication office
- Guidance office
- Research Hub

ACADEMIC BUILDING 2

Ground Floor

- Science Research Office

2nd Floor

- Server Room

3rd Floor

- Library Room

ADMIN BLDG.

- Director's Office
- Operator
- FAD

- COA
- CASHIER
- ACCOUNTING
- BUDGET
- SUPPLY
- ENGINEERING Office

BOYS DORMITORY BLDG.

- Boys Dorm Manager's Office

GIRLS DORMITORY BLDG

- Girls Dorm Manager's Office

CANTEEN BUILDING

- Canteen Office

GYMNASIUM

- Gym Office

GUARD HOUSE

- Gourd house

TOTAL: 27

INFOBOARD SYSTEM

- GUARD HOUSE
- ADMIN BUILDING
- ACADEMIC BUILDING 1
- CANTEEN
- AUDITORIUM
- BOYS DORM
- GIRLS DORM
- GYMNASIUM

TOTAL: 8

INDOOR CAMERA

- ACADEMIC BUILDING 1
 - Ground Floor - 1
 - 2nd Floor - 2
 - 3rd Floor - 2
 - ACADEMIC BUILDING 2
 - Ground Floor - 1
 - 2nd Floor - 2
 - AUDITORIUM - 2
 - GYMANASIUM - 6
- TOTAL: 16**