

Title : Replies to Pre Bid Technical queries and Other Clarifications.

Tender No : 3600001260 for “Engineering, Supply, Installation and Commissioning of CCTV System Augmentation in PPU Bagging Warehouse”

Sr. No.	Page No	Clause No.	Subject	Query	MRPL response																																																																
1	18	1. Introduction	The existing surveillance system in the PPU bagging warehouse has total of 37 cameras, 3 NVRs and 2 large display screens. MRPL is planning to augment this system with addition of 63 cameras, 2 large display screens and storage up to one year for all the cameras.	Details of existing system not provided in tender documents. Please share the same along with make/ models of existing installed cameras, NVR/Server, Storage, Switches, VMS etc. Also share system architecture, camera location, site layout of the existing system.	<table border="1"> <thead> <tr> <th data-bbox="354 89 395 497">SL</th> <th data-bbox="354 497 395 896">ITEMS</th> <th data-bbox="354 896 395 1585">Hardware in existing CCTV system</th> <th data-bbox="354 1585 395 2092">Make/ Model</th> </tr> </thead> <tbody> <tr> <td data-bbox="395 89 437 497">1</td> <td data-bbox="395 497 437 896">IP Bullet Camera</td> <td data-bbox="395 896 437 1585"></td> <td data-bbox="395 1585 437 2092">Tyco - ISL02MFONWINUL</td> </tr> <tr> <td data-bbox="437 89 478 497">2</td> <td data-bbox="437 497 478 896">Network video recorder</td> <td data-bbox="437 896 478 1585"></td> <td data-bbox="437 1585 478 2092">Tyco - HOLNVR32-IN</td> </tr> <tr> <td data-bbox="478 89 520 497">3</td> <td data-bbox="478 497 520 896">40” Monitors</td> <td data-bbox="478 896 520 1585"></td> <td data-bbox="478 1585 520 2092">Samsung - PM43H</td> </tr> <tr> <td data-bbox="520 89 561 497">4</td> <td data-bbox="520 497 561 896">Video management computer</td> <td data-bbox="520 896 561 1585"></td> <td data-bbox="520 1585 561 2092">Dell - OptiPlex 3050</td> </tr> <tr> <td data-bbox="561 89 603 497">5</td> <td data-bbox="561 497 603 896">Surveillance HDD</td> <td data-bbox="561 896 603 1585"></td> <td data-bbox="561 1585 603 2092">Western digital</td> </tr> <tr> <td data-bbox="603 89 644 497">6</td> <td data-bbox="603 497 644 896">8 port POE switch</td> <td data-bbox="603 896 644 1585"></td> <td data-bbox="603 1585 644 2092">D-Link - DGS-1210-10MP</td> </tr> <tr> <td data-bbox="644 89 686 497">7</td> <td data-bbox="644 497 686 896">Shielded CAT6 cable</td> <td data-bbox="644 896 686 1585"></td> <td data-bbox="644 1585 686 2092">D-Link - NCB-C6SGRYR-305</td> </tr> <tr> <td data-bbox="686 89 727 497">8</td> <td data-bbox="686 497 727 896">Electrical Line Surge Protector</td> <td data-bbox="686 896 727 1585"></td> <td data-bbox="686 1585 727 2092">OBO Bettermann - V20-C 1+NPE-280</td> </tr> <tr> <td data-bbox="727 89 769 497">9</td> <td data-bbox="727 497 769 896">Cat 6 Surge Protector</td> <td data-bbox="727 896 769 1585"></td> <td data-bbox="727 1585 769 2092">OBO Bettermann - ND-CAT6A/EA</td> </tr> <tr> <td data-bbox="769 89 810 497">10</td> <td data-bbox="769 497 810 896">OFC Cable</td> <td data-bbox="769 896 810 1585"></td> <td data-bbox="769 1585 810 2092">D-Link 6 Core OFC - NCB-FS090-AUHD-06</td> </tr> <tr> <td data-bbox="810 89 852 497">11</td> <td data-bbox="810 497 852 896">22U Floor mounted rack</td> <td data-bbox="810 896 852 1585"></td> <td data-bbox="810 1585 852 2092">Netrack - FM-22U 600x600</td> </tr> <tr> <td data-bbox="852 89 893 497">12</td> <td data-bbox="852 497 893 896">9U Wall mounted rack</td> <td data-bbox="852 896 893 1585"></td> <td data-bbox="852 1585 893 2092">Netrack - WM SS-9U</td> </tr> <tr> <td data-bbox="893 89 935 497">13</td> <td data-bbox="893 497 935 896">6U Wall mounted rack</td> <td data-bbox="893 896 935 1585"></td> <td data-bbox="893 1585 935 2092">Netrack - WM SS-6U</td> </tr> <tr> <td data-bbox="935 89 976 497">14</td> <td data-bbox="935 497 976 896">RJ 45 Jacks</td> <td data-bbox="935 896 976 1585"></td> <td data-bbox="935 1585 976 2092">D-Link</td> </tr> <tr> <td data-bbox="976 89 1018 497">15</td> <td data-bbox="976 497 1018 896">Media Converter</td> <td data-bbox="976 896 1018 1585"></td> <td data-bbox="976 1585 1018 2092">D-Link DMC-G1000SC</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Basic system architecture of existing system is attached with this document. 	SL	ITEMS	Hardware in existing CCTV system	Make/ Model	1	IP Bullet Camera		Tyco - ISL02MFONWINUL	2	Network video recorder		Tyco - HOLNVR32-IN	3	40” Monitors		Samsung - PM43H	4	Video management computer		Dell - OptiPlex 3050	5	Surveillance HDD		Western digital	6	8 port POE switch		D-Link - DGS-1210-10MP	7	Shielded CAT6 cable		D-Link - NCB-C6SGRYR-305	8	Electrical Line Surge Protector		OBO Bettermann - V20-C 1+NPE-280	9	Cat 6 Surge Protector		OBO Bettermann - ND-CAT6A/EA	10	OFC Cable		D-Link 6 Core OFC - NCB-FS090-AUHD-06	11	22U Floor mounted rack		Netrack - FM-22U 600x600	12	9U Wall mounted rack		Netrack - WM SS-9U	13	6U Wall mounted rack		Netrack - WM SS-6U	14	RJ 45 Jacks		D-Link	15	Media Converter		D-Link DMC-G1000SC
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2	20	2.1.4	The bidder shall prepare system architecture, as built drawing and same shall be handed over to MRPL.	Please confirm whether to submit these documents with bid or after receipt of order.	Proposed system architecture shall be part of the bid.																																																																

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3	23	3. Detailed scope of work	<p>3.22 The Video management software (VMS) shall have license for 120 cameras and operating system licenses shall be perpetual and registered in the name of M/s. MRPL.</p> <p>3.23 The VMS shall support existing cameras for all the features.</p>	<p>We will required Existing Cameras Make & Model No . In Order to Consider it in VMS . Please provide the same.</p>	<p>Refer the reply for sr.no.1</p>
4	26	4.3 BOM - Supply	<p>10 Beam Clamps 11 Quick Clip 20 mm 12 Quick Clip 25 mm</p>	<p>Kindly Let us know Exact Requirement for Beam Clamp , Quick Clip 20mm & 25 mm with Quantity to be Considered</p>	<p>** The bidder shall estimate the quantity independently before bidding and quote only lump sum price for supply part. *Any items which are required for successful completion of the job shall be bidder’s scope. May refer above points in clause 4.3 of the technical specification. Also refer clause 4.1 (h) of the technical specification “The bidder shall provide MOM with MRPL on site survey.” Bidder shall estimate the exact quantity based on the site survey</p>
5	27	4.3 BOM - Supply	<p>Sr. No. 14 - UV Resistant Black Cable Ties - 200 mm</p>	<p>Kindly Let us know Exact requirement for UV Resistant Black Cable Ties -200 mm with Quantity to be Considered</p>	<p>Refer the reply of sr.no 4</p>
6	31-32	Annexure-1 & 2	<p>Annexure 1 - Specifications of IP Dome Camera with audio Annexure 2 - Specifications of IP Bullet Camera</p>	<p>Please Share approved Make of Cameras & VMS in order to be Competitive</p>	<ul style="list-style-type: none"> • All the IP bullet camera shall have internal mic for audio recording. • The Dome cameras shall be provided with external mic for audio recording. • The cameras and VMS shall meet the specifications and objective of the tender.

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7	32	Annexure-2	Specifications for IP bullet Camera Audio pickup - Required (inbuilt)	Specifications for IP bullet Camera Audio pickup - Required (inbuilt)	Please Confirm do we need to Consider External Microphone for this type of Cameras Or Suggested Cameras Should Support Audio Input / Output .	Refer reply of sr.no.6
8	38	Annexure 22	Specifications of MCBs	Specifications of MCBs	Please Let us know the How much Ampere's MCB to be considered along with it quantity	Reply same as sr.no.4
9	38	Annexure 24	Specifications for Poles	Specifications for Poles	No dia of the pipe is mentioned in the tender documents except Class B thickness. Please provide the same.	Read clause 3.6 of the technical specification as “The bidder shall provide 3” GI poles for outdoor installation wherever required. Refer annexure#24 for the minimum specification for the poles.” However the bidder may consider higher diameter poles based on the stability requirement and site conditions.
10			General Query	General Query	It Seems Monitoring/ Viewing Workstation Line Item is not been mentioned in BOQ. Please Confirm do we need to Consider Separate Monitoring/ Viewing Workstation (PC Tower Mount) OR we will be using Existing Workstation	The existing hardware can be utilised. However the bidder shall consider any additional hardware required to fulfil objective of the tender.
11			General Query	General Query	Please Confirm on Which topologies (I.e Star topology OR Ring Topology) to be Consider for Layer 2 to Layer 3 Switches .	The solution shall be reliable and proven for similar jobs and shall meet the objective.
12		General	nsic msme Vendor	nsic msme Vendor	We are NSIC MSME vendor ,kindly confirm for the EMD exemption & other benefit,	Vendor to submit the Bid Security Declaration as per the format in Tender document Section II (Page: 65/85) in lieu of EMD. However, the other terms and conditions for MSE vendors will be as per clause no. 66 of GPC in tender document section II.
13		General	Tender Extend	Tender Extend	We will require some time for arranging technical & commercial documents from OEM. Hence, extend the tender for 2-3 weeks.	Kindly submit the offer along with required documents before the bid closing date 26.04.2021
14		General	PBG PERIOD for PERFORMANCE	PBG PERIOD for PERFORMANCE	As per the tender PBG point & as per our bank limit, we are able to provide you PBG for three years. before expiry accordingly	PBG and SD will be submitted as per tender terms and conditions.

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		GUARANTEE & SECURITY DEPOSIT	we will renew it for the required period. Please confirm.
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Sr. No.	Query	MRPL response
15	<p>With respect to the above tender , we have gone through all the technical details and PQC . We qualify to all the requisites except PQC Point No . 1 - Experience in CCTV installation in oil and Gas industries.</p> <p>We have major installations in esteemed institutions in and around Mangalore and also preferred partners for blue flagship beaches declared by the central government. Hence we request you to give us permission to participate in the tender and also give us a chance to attend the virtual pre- bid meet by relaxing the above PQC point</p>	<p>The following sectors are included in the PQC #1</p> <ul style="list-style-type: none"> • Warehouse • Large institutions • Large industries <p>PQC Point No-1 shall be as below: "The bidder should have executed at least one completed order for Engineering, Supplied & Commissioned CCTV System, not less than the 38 number of Cameras in quantity to any Hydrocarbon sectors like Refineries / Petrochemicals / Fertilizer Plants / Oil & Gas Processing Plants / Power Plants / Utility Plants/Warehouse/Large Institutions/Large Industries in the previous 5 years period ending last day of the month previous to the one in which tender is floated. The bidder should submit copy of Purchase Order & Invoices/Completion Certificate/Satisfactory Performance Certificate as a documentary proof along with technical bid".</p>
15a	Discrepancies in CAT6 cable specification	Annexure6 for Specification for Shielded CAT6 cable Point no1 shall be read as 23AWG Annealed bare solid copper, CAT6 STP cable, channel optimised to 350MHz. RJ45 shall be suitable for CAT6 STP cable

Sr no	Query	MRPL Reply
16	Existing Cameras, NVR & VMS Make and other details required.	Refer sr.no.1
17	No make mentioned for IP Bullet & Dome cameras and VMS in tender spec.	Refer sr.no.6
18	No make mentioned in the Tender , is that we have to quote only Make in INDIA Models.	Refer sr.no.6

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19	Pre Qualification Criteria: We have not Executed any project in Hydrocarbon sectors, we are Line up for good projects in future with Govt sectors. We have an IP CCTV OEM support to execute the Project. Please consider this clause and allow us to Bid the Tender.	Refer sr.no.15
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Sr no	Query	MRPL Reply
20	<p>In the Pre-Qualification Criteria, it is mentioned that " The bidder should have executed at least one completed order for Engineering, Supplied & Commissioned CCTV System, not less than the 38 number of Cameras in quantity to any Hydrocarbon sectors like Refineries / Petrochemicals / Fertilizer Plants / Oil & Gas Processing Plants / Power Plants / Utility Plants in the previous 5 years period ending last day of the month ... "</p> <p>We have executed lot of IP based surveillance projects. But, have not executed the same to any of the Refineries / Petrochemicals etc., during the previous 5 years. We have executed the same to vast deemed university campuses, Mining industries, MESCOM etc.</p> <p>Hence, we kindly request you to consider the work executed in " Education Campus / Industries / Govt Enterprise " sector and oblige.</p>	Refer sr.no.15

Sr.No	Tender reference	Page no.	Tender content	Clarification sought	MRPL Reply
21	Annexure 2 Specification for IP bullet Camera	32	Audio Pickup Required Inbuilt	External mic will have a higher pick up range compared to built in so, Requesting to consider model with internal/external mic.	Refer reply of sr.no.6
22	Annexure 2 Specification for IP bullet Camera	32	Impact protection IK10	IP67, which means fully protected from any dust ingress and immersion between 15 centimeters and 1 meter in depth. So request to change and consider model with IP67 or IK10	IP66 for Ingress Protection and IK10 for Impact protection.

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23	Annexure 3 Specification for all-in-one video server and storage	33	All in one video server and storage	With all in one server the dependency of failing one system can affect the whole system, so its recommended to have separate systems considering low dependency hence, Requesting to go with Network video recorder which will be a reliable and standard solution.	The bidder may consider NVR based solution provided it meets the stated objective of one year storage at maximum resolution and FPS of the camera.
24	Annexure 3 Specification for all-in-one video server and storage	34	All in one video server and storage	The recording time asked for is one year and resolution 4mp/25fps which is too high for any storage device. And will be a costly solution considering for 1 year need approx 950TB for storage. Requesting to reduce resolution or storage period.	Job should meet the tender objective clause 1A.
25	Annexure 3 Specification for all-in-one video server and storage	35	All in one video server and storage	In the Recording system need clarification about what all is included. Like server, vms and storage.	May refer Annexure-3 Specification for all- in-one video server and storage
26	Pre-Qualification Criteria (PQC)	9	1. The bidder should have executed at least one completed order for Engineered, Supplied & Commissioned CCTV System, not less than the 38 number of Cameras in quantity to any Hydrocarbon sectors like Refineries Petrochemicals Fertilizer Plants Oil & Gas Processing Plants/Power Plants/ Utility Plants in the previous 5 years period	Request you to releax the point : Hydrocarbon sectors like Refineries Petrochemicals Fertilizer Plants Oil & Gas Processing Plants Power Plantsf Utility Plants	Refer sr.no.15

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			ending last day of the month previous to the one in which tender is floated. The bidder should submit Copy of Purchase order & Invoices/ Completion Certificate / Satisfactory Performance Certificate as a documentary proof along with technical		
27	BID Evaluation Criteria (BEC) POINT 3	10	Bidder shall agree to support & maintain the system for 5 Years by supplying spares. A confirmation to this effect shall be attached along with technical bid.	Warranty asked is for 3 Years from the date of installation but the clause mentioned is with 5 Years support. Need more Details	Warranty for three years. Support for spares for five years. (The supplied items shall not reach end of life with in five years)
28				Since the existing camera has to be integrated need complete information of the OLD installed device	Refer sr.no.1
29	Annexure 3 Specification for All – in –One video Server and storage :	33		Need more clarity in terms of 1 year Camera recorded data and whether we can compress the old data in the storage .	Yes. But shall be retrievable on demand with same resolution and FPS.
30	Annexure 5 POE Switch specification			Request you to please consider industrial Switch for Outdoor Usage based the requirement .	Okay.
31	Ammexure-10 Specification for 22U F1oor Mount.	35	22U - 500 mm Wall Mount Network with Front Glass Door,8o CFM Fan - 2 Nos, Power Strip - 6 Socket - 5A - 1 No., Hardware Packet of 2o	Need Bigger rack (42 U Server Rack)as the scope includes integrating all the cameras along with Server Storage and required with Network components .	Bidder shall consider suitable rack to accommodate server, storage components and other hardware in the control station.

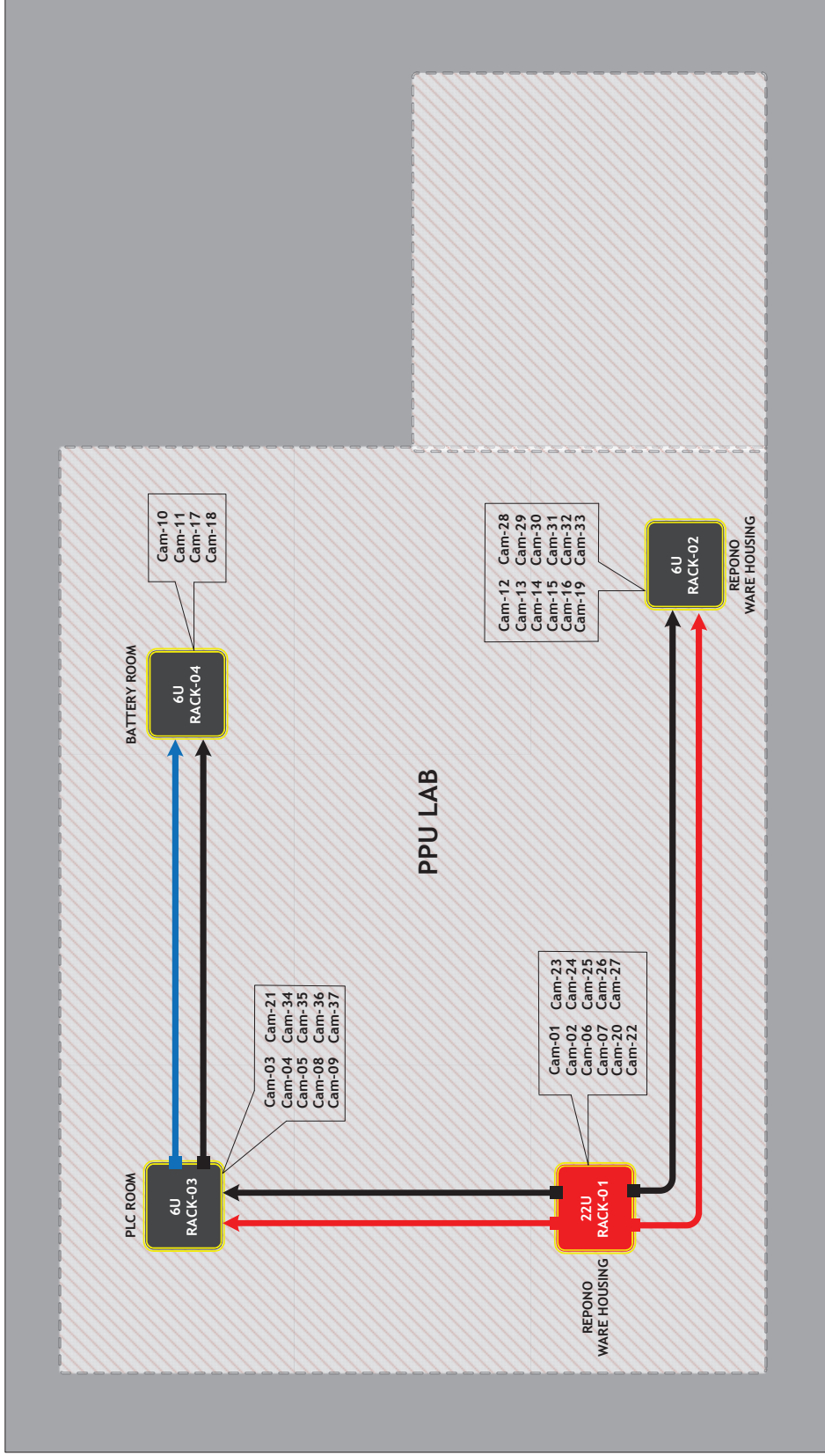
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			- 1 No., 1U Loop Cable Manager- 1 No		
32	Annexure 17 and 18	37	HDPE Pipe	Since asked is for 20 AND 25 MM , Need more clarify as to what MM to be used .	Refer sr.no.4
33				Mrpl to confirm on the resource provided by MRPL for the project other than vendor scope .	Refer clause 2.2 of technical specification.
34	Payment terms	28	Services : 52 % payment within 15 days against completion of work in all respects and final acceptance as certified by EIC. Payment of balance 48% shall be distributed for next three years with 16% in each year as certified by EIC. The bidder may raise the quarterly invoice proportionately	Since Vendor will be supplying 3% Bank Guarantee for 3 Years along with 3% Security deposit , We request you to please release the payment completely after Acceptance from EIC . OR Please consider quarterly Service After EIC certification for 3 Years billed quarterly with separate value put together other than the service cost.	To follow the tender condition.

Query		MIRPL Reply
35	As in the BOM, many item's quantity not mentioned. Kindly share full BOM, So that we can bid accordingly.	Refer sr.no. 4

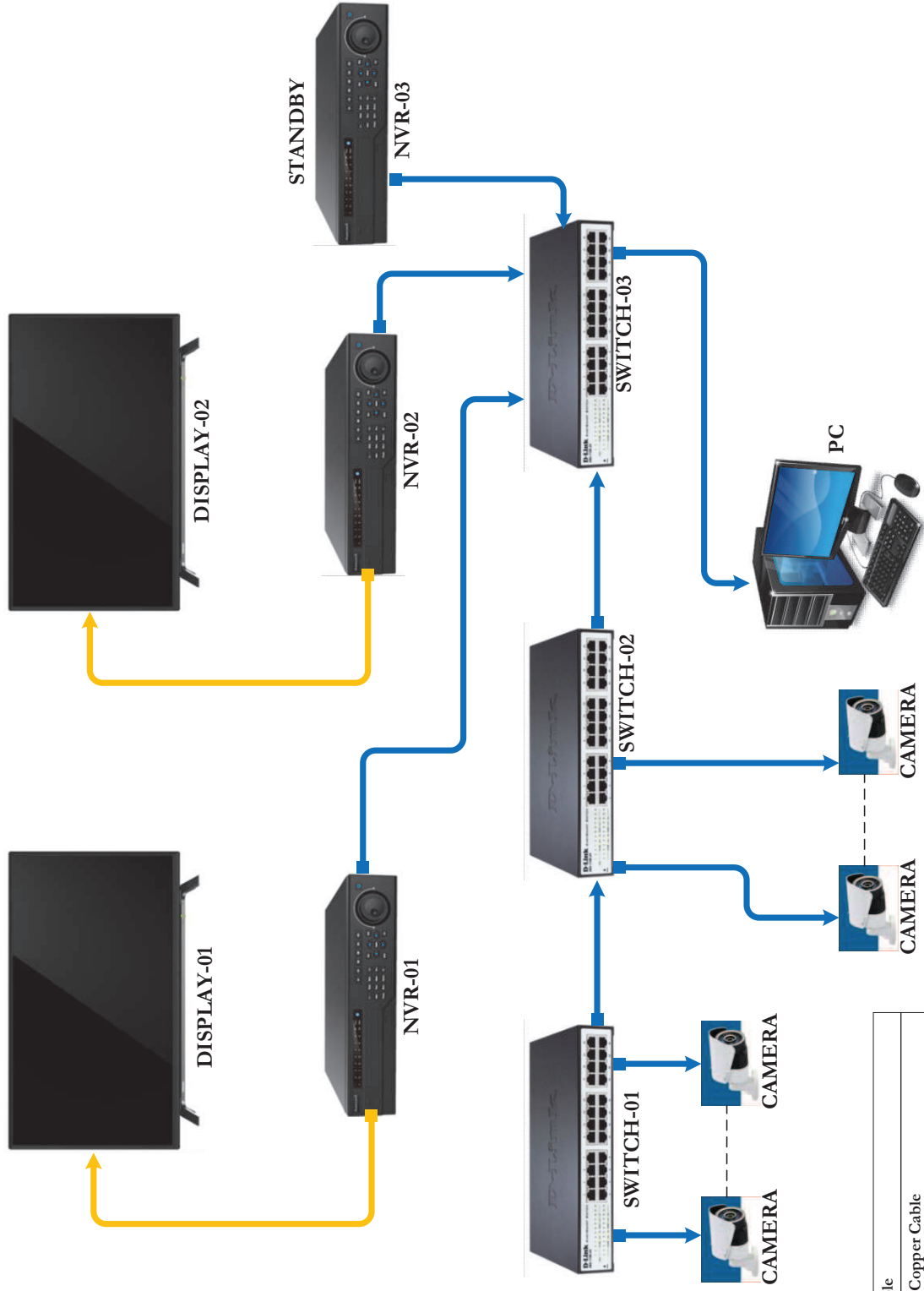
TITLE : MRPL FIBER & COPPER LINK DIAGRAM – PPU LAB



Legend :-

—	1 Run of 6 Core SM Fiber Cable
—	1 Run of Cat6A STP Copper Cable
—	1 Run Power Cable

TITLE : CONNECTIVITY DIAGRAM – PPU LAB



Legend :-

HDMI Cable

Cat6A STP Copper Cable