



مَجِيدِيَا

مَجِيدِيَا دَعْوَتُكَ سَرِيحَةً دَعْوَتُكَ سَرِيحَةً دَعْوَتُكَ سَرِيحَةً دَعْوَتُكَ سَرِيحَةً دَعْوَتُكَ سَرِيحَةً

2026/03 مَجِيدِيَا دَعْوَتُكَ سَرِيحَةً  
مَجِيدِيَا دَعْوَتُكَ سَرِيحَةً (IUL)MS/1/2026/71

18/6/2026

June 18, 2026

ክፍል 1  
የግብይት ሰነድ

የግብይት ሰነድ ማስፈጸም	የግብይት ሰነድ
<p>ደንበኞች ለግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>(IUL)MS/1/2026/71</p> <p>2026 ግብርን 18</p>	<p>1.1</p>
<p><a href="https://forms.gle/BwANG6wmqmycpaUL6">https://forms.gle/BwANG6wmqmycpaUL6</a></p> <p>2026 ግብርን 18 ለ 2026 ግብርን 28</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>3322457</p>	<p>8.1</p>
<p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>30 ግብርን ለ 11:00 ግብርን</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p>	<p>9.1</p>
<p>ደንበኞች ለግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>3322457</p> <p><a href="mailto:budget@majeediyya.edu.mv">budget@majeediyya.edu.mv</a></p> <p>2026 ግብርን 02 ለ 10:00 ግብርን</p>	<p>9.2</p>
<p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p>	<p>13.1</p>
<p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>2026 ግብርን 06</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>10:00 ግብርን</p>	<p>18.1</p>
<p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p> <p>2026 ግብርን 06</p> <p>የግብይት ሰነድ ማስፈጸም ለሚገቡ ሰነድ ማረጋገጫ ሰነድ ለማስፈጸም</p>	<p>20.1</p>

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ك: 10:00	
مؤثرات كوفيد-19 على النمو، مؤثرات سوق، مؤثرات على النمو، أثر الزيادة	24.1
مؤثرات كوفيد-19 على النمو، مؤثرات سوق، مؤثرات على النمو، أثر الزيادة	28.1
مؤثرات كوفيد-19 على النمو، مؤثرات سوق، مؤثرات على النمو، أثر الزيادة 2%	30.1















(ደ) ገንዘብ ማስፈጸም

- 28.1 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 28.2 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 28.3 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 28.4 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 28.5 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 29.1 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 29.2 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 29.3 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 29.4 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ
- 29.5 ገንዘብ ማስፈጸም ለማድረግ ለሚገባው ገንዘብ ለማግኘት ማድረግ











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4 - ስም

የግብይት

1 - የግብይት

የግብይት ስም ለማስፈጸም የሚያስፈልጉትን ሰነድ ይጠቅሙ

#	የግብይት ስም
የግብይት ስም ለማስፈጸም የሚያስፈልጉትን ሰነድ ይጠቅሙ	
1	የግብይት ስም (2 የግብይት)
2	የግብይት ስም/የግብይት ስም/የግብይት ስም/የግብይት ስም/የግብይት ስም
3	የግብይት ስም (የግብይት ስም / የግብይት ስም)
4	የግብይት ስም (3 የግብይት)
5	የግብይት ስም (የግብይት ስም/የግብይት ስም/የግብይት ስም)
6	የግብይት ስም (የግብይት ስም/የግብይት ስም)
7	የግብይት ስም (የግብይት ስም/የግብይት ስም/የግብይት ስም/የግብይት ስም/የግብይት ስም)
8	6.1 ስም ለግብይት ስም ለግብይት ስም
9	የግብይት ስም (የግብይት ስም/የግብይት ስም/የግብይት ስም)
የግብይት ስም ለማስፈጸም የሚያስፈልጉትን ሰነድ ይጠቅሙ	
10	የግብይት ስም ለግብይት ስም ለግብይት ስም ለግብይት ስም
12	የግብይት ስም (የግብይት ስም/የግብይት ስም) ለግብይት ስም ለግብይት ስም
የግብይት ስም ለማስፈጸም የሚያስፈልጉትን ሰነድ ይጠቅሙ	
13	የግብይት ስም ለግብይት ስም ለግብይት ስም ለግብይት ስም
14	የግብይት ስም ለግብይት ስም ለግብይት ስም ለግብይት ስም ለግብይት ስም

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		بەھرىلەش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	15
		مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى / مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	16
مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى			
		مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى (مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى 3 نۆمۇرىدا كۆرسىتىلگەن) (مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى 3 نۆمۇرىدا كۆرسىتىلگەن)	17
(مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى)			

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بۆلۈم 2 -	
مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
1. مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
1.1	سېتىش
1.2	ئىشلىتىش
2. مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
2.1	ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
2.2	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
3. مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
3.1	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
	بۆلۈم 3.1
	بۆلۈم 3.2
3.2	بۆلۈم 3.2 (مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى)
3.3	بۆلۈم 3.3 (مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى)
4. مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
4.1	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
4.2	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
4.3	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى
5. مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى	
	سېتىش
	سېتىش
	تۇتقۇنلۇق قىلىش
	مەھسۇلاتلارنىڭ ئىشلىتىش ۋە تۇتقۇنلۇق قىلىش ئۇسۇلى



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4 - قىسىم

بۇ قىسىمدا ئىشلىرىنى تەكشۈرۈش

مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش ۋە ئىشلىرىنى تەكشۈرۈش			
#	ئىشلىرىنى تەكشۈرۈش	مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش	مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش (مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش)
	بۇ قىسىم		
مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش ۋە ئىشلىرىنى تەكشۈرۈش			
#	مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش	مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش	مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش (مۇھىم ۋە ئىشلىرىنى تەكشۈرۈش)
	بۇ قىسىم		



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جەدۋىل - 6

مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى ئورگانىسى

مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى			
مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى
	65	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى / مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى (65 رەئىس) مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى (مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى)	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى
	10	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى / مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى 10 × (مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى رەئىس ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى) (مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى)	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى
	15	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى / مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى 15 × (مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى. رەئىس مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى) (مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى)	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى
	10	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى / مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى 10 × مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى 20% مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى.	مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى
	100		مۇستەھكەم ۋە ئىشلىتىش ۋەزىپىسى

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7 - ވަނަ ބައި

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### Form of Bid Security (Bank Guarantee)

WHEREAS, .....[name of Bidder] (hereinafter called “the Bidder”) has submitted his Bid for the Project no.....issued by the Ministry of Finance and Treasury on .....for construction of .....[name of Contract] (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that We ..... [name of Bank] of ..... [name of country] having our registered office at ..... (hereinafter called “the Bank”) are bound unto .....[name of Purchaser] (hereinafter called “the Purchaser”) in the sum of \*..... for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents.

SEALED with the Common Seal of the said Bank this .....day of .....20.....

THE CONDITIONS of this obligation are:

- (1) If, after Bid opening, the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of Bid validity:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
  - (c) does not accept the correction of the Bid Price pursuant to Clause 27,

\* The Bidder should insert the amount of the Guarantee in words and figures denominated in Maldivian Rufiyaa. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

we undertake to pay to the Purchaser up to the above amount upon receipt of his first written demand, without the Purchaser’s having to substantiate his demand, provided that in his demand the Purchaser will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date ..... days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

[signature, name, and address]

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8 - ޖުމްހޫރިއްޔާއި ގުޅިގެން

ސަރުކާރުގެ ޖުމްހޫރިއްޔާއި ގުޅިގެން

# Form of Performance Bank Guarantee (Unconditional)

To: .....  
[name & address of Purchaser]  
.....  
.....

WHEREAS ..... [name and address of Supplier] (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. .... dated ..... to execute ..... [name of Contract and brief description of Works] (hereinafter called “the Contract”);

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of \*..... [amount of Guarantee] ..... [amount in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of ..... [amount of Guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

\*An amount is to be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract, in Maldivian Rufiyaa.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall be valid until the date of issue of the Defects Correction Certificate.

SIGNATURE AND SEAL OF THE GUARANTOR .....

Name of Bank .....

Address .....

.....

.....

Date .....

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ސަލާމަތުގެ ޖެނެރަލް ސެކިއުލަރު ސެކްޓަރުގެ ދަށުން

# Form of Bank Guarantee for Advance Payment

To: .....  
[name & address of Purchaser]  
.....  
.....

[name of Contract]

Gentlemen:

In accordance with the provisions of the Conditions of Contract, of the above-mentioned Contract, .....  
.....[name and address of Supplier] (hereinafter called "the Supplier") shall deposit with .....  
..... [name of Purchaser] a Bank Guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of .....[amount of Guarantee]  
.....[amount in words].

We, the .....  
[Bank or Financial Institution], as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to .....  
[name of Purchaser] on his first demand without whatsoever right of objection on our part and without his first claim to the Supplier, in the amount not exceeding \*.....  
[amount of Guarantee]..... [amount in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contract documents which may be made between .....  
.....[name of Purchaser] and the Supplier, shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

\* An amount is to be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, in Maldivian Rufiyaa.

This Guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until .....[name of Purchaser] receives full repayment of the same amount from the Supplier.

Yours truly,  
SIGNATURE AND SEAL: .....  
NAME & ADDRESS OF BANK/INSTITUTION .....

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سودا سكر - 5

تاريخ المراجعة	
تاريخ المراجعة	مراجعة
33.1	مراجعة
33.2	مراجعة
33.3	مراجعة
33.4	مراجعة
37	مراجعة





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7 - مَدِينَةُ رَافِدِيَّيَا

مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا

مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا، مَدِينَةُ رَافِدِيَّيَا

Terms of Reference (TOR) Project: IP Video Surveillance System — Majeediyya School

Purpose Provide technical and implementation requirements for procurement, installation, configuration, testing and handover of an IP-based video surveillance system for CLASS ROOM BUILDINGS (5 STOREY AND 4 STOREY BUILDING),COMPOUND,GATES AND SCHOOL ADMIN OFFICE, OFFICE ENTRENCE,SALAAHUDEEN HALL BUILDING BOTH STAIRS, including cameras, network infrastructure, recording system, and UPS.

Scope of Work

- Supply, install, configure, test and commission all hardware and software listed in this TOR.
- Provide cabling, racks, power, PoE switches, network configuration, mounting, weatherproofing, labeling, documentation and training.
- Deliver as-built drawings, configuration backup, operation manuals and warranty documents.
- Provide maintenance/ support options as specified.
- Vendor shall survey site power availability and provide design, supply and installation of any required electrical distribution or extensions to supply power to network racks and associated equipment (including cabling, breakers, distribution boards, isolation, protective devices, and labor), ensuring compliance with local electrical codes

ITEMS	Qty
IP Dome Camera (WDR) 4MP or more	47
Outdoor Bullet Camera 4MP or more	3
64 Channel 2HHD Supportable Acusense 4K NVR, If NVR does not provide enough POE ports, can use a POE switch	1
8TB HDD for NVR	1
1KV or more UPS battery	1
Cabling and Installation charges (Includes casing and labour charges for installation)	50 camera points

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## Recorder / NVR Requirements

- Channel capacity: Vendor must survey and propose the solution.
- Video codec support: H.265+, H.265, H.264+, H.264 or Latest Technology.
- Resolution & performance: Support live view, recording and playback up to 4K (3840 × 2160).
- Video output (HDMI): 4K (3840 × 2160)/30Hz; 2K (2560 × 1440)/60Hz; 1920 × 1080/60Hz; 1600 × 1200/60Hz; 1280 × 1024/60Hz; 1280 × 720/60Hz; 1024 × 768/60Hz.
- The device shall support both audio and video recording from compatible cameras.
- Network protocols: TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS.
- Network interface: Minimum 1000 Mbps (Gigabit) Ethernet.
- PoE: Support PoE/PoE+ to power connected cameras (specify number of PoE ports and budget).
- Storage: RAID support (specify RAID levels supported), hot-swap bays preferred, scalable storage to meet retention requirements.
- High-resolution recording and efficient storage management (support H.265+/H.265 for storage savings).
- User interface: Web and client software for live view, playback, export, user management and audit logs.
- Security: User accounts with role-based access, HTTPS, and secure firmware updates.
- Environment: Rack-mountable unit suitable for standard server racks.
- Documentation: Technical datasheets, configuration guide, backup/restore procedures.
- Supports motion detection and event-based recording.
- Option for cloud backup and mobile app monitoring.

## IP Camera Requirements General (applies to both camera types unless noted):

- Network: Gigabit Ethernet, PoE compliant.
- Video analytics: Human and vehicle classification (analytics onboard or via VMS/NVR).
- WDR / HDR to ensure clear imaging against strong backlight.
- Motion detection and event-triggering capabilities.
- 24/7 imaging (low-light/ night vision) — specify minimum lux and IR/low-light technology.
- Video formats/resolutions supported: at minimum  $2688 \times 1520$ ,  $1920 \times 1080$ ,  $1280 \times 720$  at 30 fps (60Hz environments support equivalent frame rates).
- ONVIF compliance for interoperability.
- IP rating, mounting and vandal-resistance as per location (see outdoor vs indoor below).
- Minimum warranty and support terms to be specified.

### Outdoor Camera (Bullet)

- Minimum resolution: 4 MP or higher.
- Image quality: High-quality imaging with strong backlight handling.
- Analytics: Human and vehicle classification capability.
- Low-light/color performance: 24/7 imaging (specify low-light lux or sensor tech).
- Video resolution/frame rate:  $2688 \times 1520$ ,  $1920 \times 1080$ ,  $1280 \times 720$  at 30 fps or higher.
- Environmental rating: Minimum IP66 (or local standard), IK10 vandal-resistance where applicable.
- Operating temperature range suitable for site climate.
- Mounting: Wall/pole mounting accessories and weather shielding as required.
- PoE power and power budget specified.

### Indoor Camera (Dome)

- Minimum resolution: 4 MP or higher.
- Image quality: High-quality imaging with strong backlight handling.
- Analytics: Human and vehicle classification capability (as applicable indoors).
- Low-light/color performance: 24/7 imaging.
- Video resolution/frame rate:  $2688 \times 1520$ ,  $1920 \times 1080$ ,  $1280 \times 720$  at 30 fps or higher.
- Environmental rating: Indoor grade; vandal-resistant dome (IK06–IK10) where risk exists.
- Mounting: Ceiling/pendant accessories as required.

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- PoE power.

## Network Installation Requirements

- Provide a full network diagram covering head office and all deployment locations, showing camera locations, network devices, uplinks, power sources, and NVR location.
- Label all endpoints (camera IDs, port numbers, switch names, rack locations) clearly and consistently.
- Sunlight protection for outdoor equipment (appropriate housings/hoods) and routing to avoid direct sun exposure on cameras or cabling.
- Neat cable installation: use conduits, trays, or raceways so no cables are directly exposed; all cabling must be secured and hidden where practical.
- Installations planned and delivered floor-by-floor or building-separated to allow easy access for troubleshooting and maintenance.
- Switches: Provide PoE switches sized to camera count plus 20% spare ports; Gigabit uplinks; redundant uplink design recommended.
- VLANs and QoS: Isolate camera traffic; recommend and configure VLANs and QoS for video prioritization.
- IP addressing: Provide addressing plan (DHCP reservations or static IP as required).
- Testing: Perform cable certification (where applicable), continuity testing, and bandwidth verification.
- Documentation: As-built network diagrams, port mapping, IP list, and test reports delivered at handover.

### 1. Power, Rack and Physical Requirements

- Rack space planning for NVR, PoE switches, patch panels and UPS per rack.
- Earth/grounding and surge protection where required.
- Environmental considerations (ventilation, temperature control) in the equipment room.

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## UPS Requirements

- Type: Online Smart UPS (double-conversion recommended).
- Capacity: 1000 VA for each server rack hosting NVR/switches/critical equipment.
- Features: Automatic voltage regulation, network management card or SNMP capability, configurable shutdown, battery runtime monitoring, and alarm reporting.
- Provide battery runtime calculations for expected load and recommended configuration for graceful shutdown and high-availability operations.
- Installation: Rack-mount or floor-mounted as appropriate, with clear labeling and documentation.

### 1. Deliverables

- All hardware and consumables listed.
- Full installation and commissioning of cameras, NVR, network devices and UPS.
- Configuration of analytics, recording schedules, retention policies and user access.
- CCTV management software/VMS installation and licensing (if applicable).
- As-built drawings, network diagrams, port mapping, test reports and operation manuals.
- Training for operators and system administrators (hands-on and documentation).
- Warranty certificates and support contact details.

### 1. Acceptance Criteria

- All cameras functional and producing the agreed minimum resolution and frame rate.
- NVR records and plays back at required resolutions; HDMI output verified.
- PoE delivery verified per camera; network throughput and storage capacity validated.
- Analytics (human/vehicle classification) tested and documented.
- Network labeling and documentation complete; cable routing conforms to requirements.
- UPS tested for runtime and graceful shutdown under test load.
- Final acceptance after successful FAT (Factory Acceptance Test) and SAT (Site Acceptance Test) with sign-off.

## Power, Rack and Physical Requirements

- Vendor must propose and implement solutions for electrical distribution or extension to each network rack location where existing power is insufficient. Solutions shall include load calculations, required civil/electrical works, protective devices, labeled circuits, compliance with local regulations, and handover documentation

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## Warranty, Support & Maintenance

- Minimum hardware warranty (specify period — e.g., 36 months) and quoted extended support options.
- Response time SLA for critical faults (to be specified).
- Firmware and software update policy and support for security patches.

## Compliance and Standards

- Products to be compliant with relevant national and international standards (CE/FCC/ROHS/EN/IP/IK as applicable).
- Conformity to local electrical and building codes.

## Project Timeline & Milestones

- Detailed project schedule including delivery, installation, commissioning, testing, training and handover. (Vendor to propose timelines.)

## Tender Submission Requirements

- Technical proposal mapping each item in this TOR to offered product models and datasheets.
- Bill of Materials with quantities and unit pricing.
- Implementation methodology, project schedule, resource CVs, and warranty/support terms.
- References of similar installations.

## Preferrable brands for camera

- Bosch, Hikvision, Dahua, Axis (any brands with similar specifications and quality can be accepted)