INDEX

CENTRAL PUBLIC WORKS DEPARTMENT

Name of Work: MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

NIT No. 108/EE(E)/SJHED/2026-27

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Certified that this N.I.T. contains 1 to 66 pages (including this page)
"NIT approved for Rs. 9994753/-(Rupees Ninety Nine Lakh Ninety Four Thousand Seven Hundred and Fifty Three Only)"

कार्यपालक अभियंता (वै)
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INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF BID DOCUMENT

(Applicable for inviting bids on 2 bid system)

The Executive Engineer (E), Safdarjung Hospital Electrical Division, CPWD, New Delhi–110 029 **(Phone No. 01126730418, e-mail ID: deleeesjhed.cpwd@nic.in)** on behalf of the President of India **invites** online percentage rate bids in two bid system (PQ bid and Financial bid) **From approved and eligible enlisted contractor in Building and Roads category of CPWD / OEM of CCTV / Specialized firms / Agencies** for the following works:-

क्रम सं0.	निविदा आमंत्रण सं0.	कार्य का नाम और स्थान	निविदा के लिए अनुमानित लागत	धरोहर राशि	कार्य समापन की अवधि	निविदा भरने की अन्तिम तिथि एवं समय	निविदा खुलने की तिथि एवं समय
1	2	3	4	5	6	7	8
1	108/EE(E)/SJHED/2026-27	MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).	रू0. 9994753/–	रू0. 199895/–	03 माह	.23.11.2026. 15:00 बजे तक	.23.11.2026. 15:30 बजे

* To be filled by EE (E)

Note: The contractor shall quote his percentage rates including GST and any other applicable taxes, levy or cess etc. and nothing extra shall be reimbursed on this account. This provision will supersede all the provisions in GCC and elsewhere in the tender document in regard to Levy/Taxes payable by contractor.

1. The tender are invited for work of SITC of CCTV from:
   a) Manufacturers / OEMs.
   b) Specialized firms.
   c) Approved and eligible CPWD Building and Roads Category contractor 3(b), 3(c) & 3(d) are not applicable for CPWD enlisted contractors of appropriate class.
2. The Approved and eligible CPWD Building and Roads Category given an undertaking that if "I/We shall become the lowest tenderer then I/We shall submit the documents of Associated specialized Agencies /OEM/Authorised service provider of the specialized E&M services as per the eligibility criteria mentioned in the **"special conditions of NIT for association of specialized agencies"** after acceptance of tender alongwith Performance Guarantee otherwise **department**

may reject my/our tender & may forfeit the deposited EMD absolutely & debar me/us from re-tendering for this work"

3. The specialized firms who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.

a) Experience of having successfully completed similar works during the last seven years ending last day of month previous to the one in which tenders are invited.

i) Three similar works completed works each costing not less than Rs. 3997901/-

OR

ii) Two similar works completed works each costing not less than Rs. 5996852/-.

OR

iii) One similar works completed works each costing not less than Rs. 7995802/-

Similar work shall mean works of **"SITC of CCTV System"**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of tenders**.**

b) Should have had average annual financial turnover not less than 30% of the estimated amount during the immediate last three consecutive financial years ending 31.03.2025. (Scanned copy of Certificate from CA with UniqueDocument Identification Number (UDIN) to be uploaded) The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.

c) Should not have incurred any loss (profit after tax should be positive) in more than two years during last five consecutive years ending 31.03.2025. (Standalone finance statement duly certified and audited by the Chartered Accountant.) (Scanned copy of original to be uploaded).

d) Should have a Banker's Certificate from a Commercial Bank of the amount equal to 40% of the Estimated Cost put to tender (ECPT) or Net worth certificate from CA with Unique Document Identification Number (UDIN) of minimum 10 % amount of ECPT (Scanned copy of original to be uploaded). (Net worth Certificate should be issued during last 1 year only).

Note: 3(b), 3(c) & 3(d) are not applicable for CPWD enlisted contractors of appropriate class

4. Manufacturers who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.

3.1 The CCTV manufacturer shall comply with BIS standards, duly certified by the manufacturer itself.

3.2 The experience of successful completion of similar works shall be as per 3(a) of this NIT.

3.3 The manufacturer shall furnish an undertaking regarding availability of spares for the entire expected life of the CCTV system i.e 7 years.

3.4 The complete CCTV installation including its components, safety devices, various types of controls etc., testing, inspection, operation & maintenance shall conform to relevant Codes, Standards, code of practices, guidelines, safety rules, inspection manual(s), rules issued by Bureau of Indian Standards, as amended upto the last date of receipt of tenders.

3.5 Quality standard shall conform to latest IS/ISO-9011:2015 as amended.

4. The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
5. This Information and Instructions for bidders posted on website shall form pay of bid document.
6. The bid document consisting of plans, specifications, Schedule of quantities of various types of items to be executed and the **s**et of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website **https://etender.cpwd.gov.in** or **www.cpwd.gov.in** free of cost.
7. EMD must be made / issued only from the account of the bidder / tenderer, thirty party account EMD shall not be accepted.
8. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of **Executive Engineer (E), SJHED, CPWD, New Delhi**, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.
9. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered/update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of **https://etender.cpwd.gov.in**
10. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMsigner on their system as per instructions available on download section of **https://etender.cpwd.gov.in**
11. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
12. Contractor can upload documents in the form of JPG format and PDF format.
13. Certificate of Financial Turn Over: At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning Financial Turnover of last 7 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
14. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turn sky blue.

    In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

    However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

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List of Documents to be scanned and uploaded within the period of bid submission:

A. List of Documents to be scanned and uploaded within the period of bid submission: (For CPWD Enlisted Contractors)	
1	Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receiptsor/and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank against EMD in **favour of Executive Engineer (E), SJHED, CPWD, New Delhi.**
2	Copy of receipt for deposition of Original EMD to division office of any EE, issued as per Annexure-I.
3	Undertaking to associate specialized work.
4	Valid Enlistment order of the Contractor of CPWD
5	GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "lf work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
6	Form G–Back-to-back basis
7	The bidder shall upload certificate issued through LMS of ERP that "The existing enlisted contractor either himself or his authorized representative shall take compulsory ERP (Enterprise Resource Planning) training through any of the CPWD Regional Training lnstitutes (RTls) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit of CPWD. Training will be valid only when participants are registered in LMS (Learning Management System) of ERP and certificate is issued through LMS of ERP".
8	Valid Electrical Contractor License or undertaking that "I/We shall either obtain valid electrical license at the time of execution of electrical work or associate an approved and eligible contractor of CPWD in appropriate class having valid electrical contractor license".
9	Email & mobile no. of the firm/ agency on the letter head of firm/ agency (For making correspondence).
10	An affidavit on Rs.100 stamp paper duly attested by notary is to be uploaded as regard to that I/we have not been debarred susupended for tendering in CPWD till the last date of submission of bid.
11	An undertaking regarding, if the firm became lowest then they shall submit along with performance guarantee after the acceptance of tender, an undertaking from the OEM regarding: a) Manufacturer Authorization certificate of CCTV and Network Switch at the time of submission of PG b) The OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ comprehensive maintenance contract for the useful life of the system and c) OEM shall provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment

B. List of Documents to be scanned and uploaded within the period of bid submission by (For Specialized agency)

1	Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receiptsor/and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank against EMD in **favour of Executive Engineer (E), SJHED, CPWD, New Delhi.**
2	Copy of receipt for deposition of Original EMD issued as per Annexure-I.
3	Certificates of Work Experience of similar work (Form 'C')
4	Certificate of Financial Turnover from CA.(Form A)
5	Bankers Certificate (Form B) / Networth Certificate (Form B-1)
6	GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "lf work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
7	Letter of Transmittal as per Annexure-II
8	Form F–Non black listing
9	Form G–Back-to-back basis
10	Form H–ERP Training certificate from CPWD / Undertaking regarding ERP training in CPWD department
11	Valid Electrical Contractor License or undertaking that "I/We shall either obtain valid electrical license at the time of execution of electrical work or associate an approved and eligible contractor of CPWD in appropriate class having valid electrical contractor license".
12	Email & mobile no. of the firm/ agency on the letter head of firm/ agency (For making correspondence).
13	An affidavit on Rs.100 stamp paper duly attested by notary is to be uploaded as regard to that I/we have not been debarred susupended for tendering in CPWD till the last date of submission of bid.
14	An undertaking regarding, if the firm became lowest then they shall submit along with performance guarantee after the acceptance of tender, an undertaking from the OEM regarding: a) Manufacturer Authorization certificate of CCTV and Network Switch at the time of submission of PG b) The OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ comprehensive maintenance contract for the useful life of the system and c) OEM shall provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment
C. List of Documents to be scanned and uploaded within the period of bid submission by (For Manufacturer/OEMs)	
1	Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receiptsor/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank against EMD in **favour of Executive Engineer (E), SJHED, CPWD, New Delhi.**
2	Copy of receipt for deposition of Original EMD issued as per Annexure-I.
3	Valid Electrical Contractor License or undertaking that "I/We shall either obtain valid electrical license at the time of execution of electrical work or associate an approved and eligible contractor

	of CPWD in appropriate class having valid electrical contractor license".
4	Certificate of Financial Turnover from CA.(Form A)
5	Bankers Certificate (FormB) / Networth Certificate (Form B-1)
6	GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "lf work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
7	Letter of Transmittal as per Annexure-II
8	Form F–Non black listing
9	Form G–Back-to-back basis
10	The manufacturer shall furnish an undertaking regarding "CCTV System" comply with BIS standards."
11	Certificate of Manufacturers/OEMs of makes specified
12	The manufacturer shall furnish an undertaking regarding availability of spares for the entire expected life of the CCTV System i.e 7 years
13	Quality standard shall conform to latest IS/ISO-9011:2015 as amended.
14	Form H–ERP Training certificate from CPWD / Undertaking regarding ERP training in CPWD department

All modifications / addendum /corrigendum issued regarding this bidding process, shall be uploaded on website only.

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Annexure-I

Format of receipt of deposition of original EMD

Receipt of deposition of original EMD (Receipt No. …….. Date……..)		
1.	Name of Work	MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).
2.	NIT No.	108/EE(E)/SJHED/2026-27
3.	Estimated Cost	Rs. 9994753/-
4.	Amount of Earnest Money Deposit	Rs. 199895/-
5.	Last date of submission of bid	-23-11-2026--- upto 15:00 PM

(** To be filled in by tender inviting authority/NIT approving authority at the time of issue of NIT and uploaded along with NIT)

1.	Name of Contractor	
2.	Form of EMD	
3.	Amount of Earnest Money Deposit	
4.	Date of submission of EMD	
Signature of EMD receiving Officer: (EE / AE(P) / AAO) Name and Designation of EMD receiving Officer: Office Stamp:		

(# To be filled by EMD receiving EE/DDH)

Annexure-II

LETTER OF TRANSMITTAL

From : …….

To

The Executive Engineer (E)
SJHED, CPWD,
New Delhi

Name of work:- MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

Sir,

Having examined the details given in bid documents for the above work, I/ we hereby submit the relevant information.

1. I / we hereby certify that all the statements made and information supplied in the enclosed forms A to Q (if applicable) and accompanying statement are true and correct.
2. I / we have furnished all information and details necessary for eligibility andhave no further pertinent information to supply.
3. I / we submit the requisite certified solvency certificate and authorise the Executive Engineer (E), SJHED, CPWD, New Delhi to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I / we also authorise Executive Engineer(E), SJHED, CPWD, New Delhi to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I / we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works:

Name of work	Certificate from
1. …….	……..
2. …….	……..
3. …….	……..

CERIFICATE : It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I/We shall be liable to be debarred, disqualified/ cancellation of enlistment in case any information furnished by me / us found to be incorrect.

Enclosures:- Seal of bidder

Date of submission SIGNATURE(S) OF BIDDER(S)

FORM 'A'

FINANCIAL INFORMATION

I. Financial Analysis - Details to be furnished duly supported by figures in balance sheet / profit & loss account for the last five financial years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

YEARS

FinancialYear	2020-21	2021-22	2022-23	2023-24	2024-25
Gross Annual turn over on construction works					
Profit / Loss (stand alone financial statement and Consolidated financial statement both)					

II. Financial arrangements for carrying out the proposed work.

Signature of Chartered Accountant with Seal

Signature of Bidder (s)

FORM 'B'

BANKER'S CERTIFICATE FROM A COMMERCIAL BANK

This is to certify that to the best of our knowledge and information that M/s./Sh…….. ..... having marginally noted address..... as a Customer of our bank are/is respectable and can betreated asgoodforany engagement upto alimit of Rs……. (Rupees)……..

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

NOTE

1. Banker'sCertificatesshouldbeonletterheadoftheBank,addressedtotendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM "B-1"

FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT

It is to certify that as per the audited balance sheet and profit & loss account during the financial year……., the Net Worth of M/s …….. (Name & Registered Address of individual / firm / Company), ason……. (the relevant date) is Rs. …….. after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 10% in the last three years ending on 31.03.2025 .

Unique Document Identification Number (UDIN)…….

Signature of the Chartered Accountant…….

Name of the Chartered Accountant ……

Membership No. of ICAI

Date and Seal

FORM 'C'

DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF TENDERS

Name of the firm / contractor…….

S.No.	Name of work / project and location	Owner sponsoring organization	Cost of work in Crores of Rupees	Date of commencement asper contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending / inprogress with details	Name and /Address/ telephone number of officer to whom reference may be made	Whether the work was done on back to back Yes / No
1	2	3	4	5	6	7	8	9	10

*Indicate gross amount claimed and amount awarded by the Arbitration Tribunal.

SIGNATURE OF BIDDER(S)

FORM – 'F'

PROFORMA OF AFFIDAVIT FOR NON- BLACKLISTING

Name of work**:** MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

I/We undertake and confirm that our firm/partnership firm has not been blacklisted presently (as on last date of submission of the bid) by any State Govt./Central Govt. Departments / Public Sector Undertakings / Autonomous bodies. Further that, if such information comes to the notice of the department then I/we shall be debarred for bidding in CPWD for this work & in future forever. Also, if such information comes to the notice of department on any day before date of start of work, the Engineer-in- charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee/ Action will be taken as percondition mentioned in tender.(Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

NOTE: This Affidavit to be furnished on a 'Non-judicial' stamp paper worth Rs.100/-

Signature of Bidder (s) or an authorized Officer
Of the firm with stamp & seal

Signature of Notary withseal

FORM – 'G'

AFFIDAVIT FOR NON-EXECUTION OF WORKS ON BACK TO BACK BASIS

Name of work**:** MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

I/We undertake and confirm that eligible similar work (s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for biddingin CPWD in futureforever. Also, If such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid).

NOTE: This Affidavit to be furnished on a 'Non-judicial' stamp paper worth Rs. 200/-

Signature of Bidder (s) or an authorized Officer
Of the firm with stamp & seal

Signature of Notary with seal

FORM-H

UNDERTAKING REGARDING ERP Training in CPWD Department (For Non-enlisted CPWD Contractors)

To
The
Executive Engineer (E)
SJHED, CPWD,
New Delhi.

Nameofwork**:** MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

Sir

Having examined the details given in the bid document for the above work, I/We hereby submit the following undertaking that "If work is awarded to me, I/We shall obtain ERP (Enterprise Resource Planning) training from CPWD Regional Training Institutes, as applicable, within two months from the date of receipt of award letter and failure to do so, a recovery of Rs. 5,000/- per week shallbe made from the R/A billwithout giving any show cause notice inthis regard''

Signature of bidder or
An Authorized person of the firm
with stamp

Date of submission

FORM – N

PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR SPECIALIZED WORKS

Name of Work: MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

I/we hereby propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letters are also attached.

Sl. No	Component	Name of Associated Contractor	Category and Class of registration	Enlistmentcopy /completion Certificatesattached	Monetary Limit of work	Validity of registration	Consent letter attached (Yes/No)
1.	SITC of CCTV System						

Note: Self Attested photocopies of enlistment order, valid electrical contractor license for E&M work shall be submitted by the main contractor/associated contractor whoever is eligible.

Signature of contractor

FORM – P

CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED WORK(S)

Name of work: MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

1. I / We hereby give my consent to associate with M**/s** ……, for executing the of work of ……..... (Mention specialized work(s)).

2. I / We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer–in-Charge for the corresponding specialized work(s) till the completion of the work.

3. I / We will be responsible for necessary action to handover the installations and for rectification of defects and repair during the maintenance / warranty period.

4. Also I / We will employ full time technically qualified Engineer / supervisor for the specialized work(s) component of the work as required for the work. I / We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Main Agency/Contractor

Signature with date of Associate Specialized Agency

Address

Address

1. Witness with address

(From main contractor side)

2. Witness with address

(From associated agency side)

FORM-"Q"

MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

1] M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth called the main contractor]

And

2]M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth, called AssociatedspecializedAgency]

For the execution of Specialized Works (MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Main OT, Gynae, GRR Ward, H Block and Ortho department at S.J. Hospital, New Delhi.)

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the EE (E), SJHED, CPWD, Safdarjung Hospital, New Delhi. Any of us may appeal against the mediation to the SE, DC-10, CPWD, East Block-I, Sec.1, R.K.Puram, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:

1] The associated specialized agency will execute all specialized work(s) in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.

2] That the Associated specialized agency has gone throughthe contract and has understood the scope of work required for the purpose of executing the specialized work(s).

3] All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the associated specialized agency.

4] The site staff required for the specialized work(s) shall be arranged by the associated specialized agency as per terms and conditions of the agreement.

5] Site order book maintained for the said work shall be signed by the authorized representative of main contractor as well as Associated specialized Agency.

6] All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the Associated specialized agency with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated agency shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR SIGNATURE OF ASSOCIATED SPECIALIZED AGENCY.

Date: Date

Place Place

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs. 200/-

CPWD-6 FOR e-TENDERING

1. Percentage rate tenders are **invited** on behalf of the President of India **invites** online percentage rate bids in two bid system (PQ bid and Financial bid) **From approved and eligible enlisted contractor in Building and Roads category of CPWD / OEM of CCTV / Specialized firms/Agencies** for the work MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1.1 The work is estimated to cost **Rs. 9994753/-** This estimate, however, is given merely as a rough guide.

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major descipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

1.2.2. **To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:** I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid)

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD -7 which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in . Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **03 Months** from the date of start as defined in Schedule 'F' or from the 1st date of handing over of the site, whichever is later, in accordance with the phasing, if any, as indicated in the tender documents.

4. The site for the work is available.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the cost of terms and conditions of contract to be complied with and other necessary documents except Standard General Conditions Of Contract Form can be seen from website https://etender.cpwd.gov.in or www.etender.cpwd.gov.in free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.

9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks against EMD (drawn in favour of **Executive Engineer (E), SJHED, CPWD, New Delhi,)** shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

   A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e-Bank Guarantee of any Commercial bank having validity for a period of **90 days for single bid system and 180 days for two bid system** or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

   The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

   Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e-tender shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited original EMD with any division of CPWD and other documents scanned and uploaded are found in order.

   The bid submitted shall be opened at 03:30 P.M. on –--23-11-2026-------

10. The bid submitted shall become invalid and tender processing fee (if applicable) shall not be refunded if:

i) The bidder is found ineleigible.

ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.

(iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.

iv) If any discreapancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

v) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the Estimated Cost put to tender (ECPT) or contract amount whichever is higher. Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receiptsor/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule **'F'**, including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. **The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board i/c provident fund code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and Programme chart (Time and progress) within the period specified Schedule F.**

12. **The description of the work is as follows:**

Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed

condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the bidders submitted by the contractors who resort to canvassing will be liable to rejection.

15. The competent authority on behalf of the President of India reserves to himself the right of accepting the whole or any part of the bid and the bidderer shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to bid for works in the CPWD Circle **(Division in case of contractors of Horticulture/ Nursery category)** responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this department.

17. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

18. The bids for the works shall remain open for acceptance for a period of **75 Days (Seventy Five days)** from the date of opening of price bids**.**
(i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
(ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
(iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work

19. This Notice Inviting Bid shall form a part of the contract document. The successful bidders /contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of: -

(a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any forming the part of the bid as uploaded at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

(b) Standard CPWD Form 7 with up-to-date correction slips.

20. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone No. 01126730418, e-mail ID: deleeesjhed.cpwd@nic.in) or ERP helpline no. 18001803286 or e-mail ld cpwd.support@techmahindra.com . The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

21. **Price Preference to SC/ST individual contractor for item rate/percentage rate tender:** Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-

(i) For work(s) upto and equal to an estimated cost of Rs. 2.80 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).

(ii) For work(s) beyond an estimated cost of Rs. 2.80 lakh and upto and equal to estimated cost of Rs. 6.40 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.

The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor only. The above concession shall be allowed only after verification of the individual contractor's claim of belonging to SC/ST community.

कार्यपालक अभियंता (वै)
स.ज.अ.वै.मं., के.लो.नि.वि.
नई दिल्ली

भारत के राष्ट्रपति की ओर से तथा उनके लिए
For & on behalf of President of India

सं0 19(21)/का.अभि.(वै)/स.ज.अ.वै.मं./2026–27/1929 दिनांकः 16.11.2026

ई–निविदा आमन्त्रण सूचना

कार्यपालक अभियंता (वै), स.ज.अ.वै.मं., के.लो.नि.वि. नई दिल्ली–110029 (दुरभाष स0. 01126730418) के द्वारा भारत के राष्ट्रपति की ओर से निम्नलिखित कार्य के लिए ऑनलाईन दर प्रतिशत निविदा दो बोली पद्वति (पर्वू योग्यता बोली एंव वित्तीय बोली) **From approved and eligible enlisted contractor in Building and Roads category of CPWD / OEM of CCTV / Specialized firms/Agencies** से **आंमन्त्रित** की जाती हैं।

नि.आ.सू.स0. 108/EE(E)/SJHED/2026-27 **कार्य का नामः** MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi). **अनुमानित लागतः** रू0. **9994753/– धरोहर राशिः** रू0. **199895/– समापन की अवधिः 03 माह, निविदा भरने की अन्तिम तिथि एवं समयः** ..23.11.2026.... 3:00 बजे तक, **निविदा खोलने की अन्तिम तिथि एवं समयः** .23.11.2026..... 3:30 बजे।

Tender forms and other details can be obtain from the website www.etender.cpwd.gov.in

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कार्यपालक अभियंता (वै)
स.ज.अ.वै.मं., के.लो.नि.वि.
नई दिल्ली

Copy to:

1. अधीक्षण अभियंता, दिल्ली परिमंडल–10, के.लो.नि.वि., ईस्ट ब्लांक–1, तल–7, आर.के. पूरम, नई दिल्ली को सूचनार्थ।
2. कार्यपालक अभियंता, स.ज.अ.मं., के.लो.नि.वि. नई दिल्ली को सूचनार्थ
3. सहायक अभियंता (वै) (यो), स.ज.अ.वै.मं., के.लो.नि.वि. नई दिल्ली को सूचनार्थ।
4. सहायक अभियंता (वै)–1, 2, 3 एवं 5, स.ज.अ.वै.मं., के.लो.नि.वि. नई दिल्ली को सूचनार्थ।
5. नोटिस बोर्ड, स.ज.अ.वै.मं., के.लो.नि.वि. नई दिल्ली।

} ई–मेल द्वारा

कार्यपालक अभियंता (वै)

C.P.W.D.- 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE :-**Delhi** CIRCLE:- **Delhi Circle-10**
BRANCH :- **E&M** DIVISION **:- SJHED**
REGION :- **Delhi**

Percentage Rate Bid

%Bid for the work of**:** MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

Dear Sir,

(i) Bids to be uploaded online by **3.00 PM** on—…..—--23-11-2026-----……..

(ii) To be opened online in presence of Bidders who may be present at **3:30 PM on** …….. …----
-23-11-2026------... **in** the office of Executive Engineer (E), SJHED, CPWD, New Delhi.

**** To be filled by Executive Engineer (E), CPWD, New Delhi.**

CPWD Form-7

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **75 (Seventy Five days** from the date of opening of PQ bid and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) issued by Commercial Banks is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said performance guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the GCC.

Further, I/We agree that in case of forfeiture of Earnest Money or performance guarantee as aforesaid, I/We shall be debarred for participation in the retendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/We, am/are authorised to communicate the same or use the information in any manner prejudicial to the safety of the state.

Dated …***…

Signature of the Contractor
Postal Address …***…
Telephone No. ----------

Witness…***…

FAX ----------

Address: …***…

E-MAIL ----------

Occupation…***…

…**…To be filled by the Executive Engineer

…***…To be filled by the Contractor

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of the President of India for a sum of Rs……* (Rupees……..……)*

The letters referred to below shall form part of this contract agreement: -

(a)

(b)

(c)

For & on behalf of President of India

Signature …….*……

Dated: ……* …… Designation……*……..

***To be filled in by the Engineer-in-charge**

On Non-Judicial Stamp Paper of Minimum Rs. 100/-
(Guarantee offered by Bank to CPWD in connection with the execution of contractors)
Form of Bank Guarantee for Earnest Money Desposit/ Performance Guarantee/ Security Deposit/Mobilization Advance

1. Whereas the Executive Engineer (E), SJHED, CPWD on behalf of the President of India (hereinafter called "The Government") has entered into and agreement bearing number …….. with …….. (name and address of the contractor) …….. (hereinafter called "the Contractor") for execution of work …… (name of work) …….. The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ……. (Rupees …… only) valid upto …….. (date)…….. as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ……(indicate the name of the bank) ……. (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. ……. (Rupees …….. only) on demand by the Government within 10 days of the demand.

3. We, …… (indicate the name of the Bank) ……., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. …….. (Rupees ……. Only)

4. We, ……. (indicate the name of the Bank) ……., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

5. We, …….. (indicate the name of the Bank) ……., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, ……. (indicate the name of the Bank) ……., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8. We, …… (indicate the name of the Bank) …….., undertake not to revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to …… unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. …….. (Rupees ……. Only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date …….

Witness:

1. Signature …….
   Name and address

Authorized signatory
Name

Designation
Staff code no.
Bank seal

2. Signature …….
   Name and address

* Date to be worked out on the basis of validity period of 30 days where only financial bids are invited and 75 days for two/three bid system from the date of submission of tender.
** In paragraph I, strike out the portion not applicable. Bank Guarantee will be made either for performance guarantee/security deposit/mobilization advance, as the case may

PROFORMA OF SCHEDULES

SCHEDULE 'A'			
Schedule of quantities	**E&M Work**	**:**	Attached

SCHEDULE 'D'	
Extra schedule for specific requirements/documents for the work, if any:	**NIL**

SCHEDULE 'E'		
Reference to General Conditions of contract: -		General Conditions of Contract (GCC)– Maintenance Work -2023 amended/modified up to last date receipt of tender i/c extension, if any
Name of Work:-		MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).
Estimated cost of work:-		**Estimated Cost: Rs. 9994753/-**
(i) Earnest Money		Rs. 199895/- (To be refunded after receipt of P.G.)
(ii)	Performance Guarantee:-	a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount
(iii)	Security Deposit :-	2.5% of tendered Value.

SCHEDULE 'F'				
General Rules & Directions: -				
Officer inviting tender:-		Executive Engineer (E), SJHED, CPWD,New Delhi.		
Definitions:				
2 (vi)	Engineer-in-Charge	(i)	Electrical work	Executive Engineer (E), SJHED CPWD, New Delhi
2 (viii)	Accepting Authority	Executive Engineer (E), SJHED CPWD, New Delhi.		
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%		
2 (xi)	Standard schedule of Rates	**Elect.**	i) DSR (E&M) - 2025 (All above with withup to date correction slipsamended/modified up to last date receipt of tender i/c extension, if any)	
2 (xii)	Department	Central Public Works Department		
8 (ii)a	Standard CPWD contract form	GCC Maintenance work-2023, CPWD form 7 as modified and corrected up to date amended/modified up to last date receipt of tender i/c extension, if any)		

Clause 1	
(i) Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW: Welfare Board or proof of applying thereof from the date of issue of letter of acceptance, in days.	7 days
(ii) Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period as provided in (i) above.	3 days

Clause 2	
Authority for fixing compensation under clause 2.	Superintending Engineer, DC-X, CPWD, R.K. Puram, New Delhi or his successor.

Clause 2A	
Whether Clause 2A shall be applicable	No

Clause 5			
Number of days from the date of issue of letter of acceptance for reckoning date of start :			10 days
Mile stone(s) as per table given below:			
Sl. No.	Description of Milestone (Physical)	Time allowed in days (From date of start)	Amount to be with-held in case of non-achievement of milestone.
---------- Not applicable ----------			
Time allowed for execution of work :			**03 Months**
Authority to decide:			
(i)	Authority to convey the decision of shifting of mile stone & extension of time		Executive Engineer (E), SJHED CPWD, New Delhi or his successor thereof
(ii)	Authority to decide rescheduling of milestones & extension of time		Superintending Engineer, DC-X, CPWD, R.K. Puram, New Delhi or his successorthreof
(iii)	Shifting of date of start in case of delay in handing over of site		Superintending Engineer, DC-X, CPWD, R.K. Puram, New Delhi or his successor thereof

Schedule of handing over of site

Part	**Portion of site**	**Description**	**Time Period for handing over reckoned from date of issue of letter of intent**
Part A	Portion without any hindrance	Full Site of Work	NA
Part B	Portions with encumbrances	Nil	NA
Part C	Portions dependent on work of other agencies	Nil	NA

Clause 5A

Whether Clause 5 shall be applicable	Not Applicable

Clause 6	
Electronic Measurement Book (EMB)	
Mode of measurements	Electronic Measurement Book (EMB) (EMB initiated by contractor through ERP Portal)

Clause 7	
Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 24.99 Lakh (Electrical work) Or Mutually Agreed by Engineer-in- charge and Agency

Clause 7A	
Whether Clause 7A shall be applicable	Yes

Clause 8	
Competent authority to inspect and issue completion certificate (Electrical Work)	Executive Engineer (E), SJHED, CPWD, New Delhi

Clause 10A	
List of testing equipment to be provided by the contractor at site lab.	As per requirement of site and direction of Engineer-in-charge.

Clause 10B(i)	
Whether Clause 10B(i) shall be applicable	Not Applicable

Clause 10C	Applicable		
Component of labour expressed as percent of value of work	Electrical work	For CMC & Day to Day Maintenance	
		For Other works	

Clause 10CC			
Whether Clause 10CC shall be applicable	Not Applicable		

Clause 11	
Specifications to be followed for execution of work	
1. Electrical works:	a) CPWD General Specifications for Electrical work Part I Internal - 2023, amended upto date.
	b) CPWD General Specifications for Electrical work Part II External -2023, amended upto date.

खण्ड **Clause 12** (As per DG OM No. DG/CON/Maintenance 2O23/O3 dt. 18-12-2023 as amended up to date

Type of work:	**Maintenance works**
The Completion cost of any agreement for maintenance works including works of up-gradation, aesthetic, special repair, addition/alteration should not exceed two times the contract amount. **Deviation up to 1.25 times of Contract amount shall be approved by Engineer-in-Charge with recorded reasons. Deviation beyond 1.25 times up to 1.50 times of contract amount shall be approved by SE/CE (as applicable) with recorded reasons.In exceptional case, ADG/SDG (as applicable) shall have power to approve the deviation beyond 1.50 times up to 2.0 times of Contract amount with recorded reason and take suitable corrective action.**	
खण्ड **Clause 12.2 & 12.3** Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work and other maintenance works.	No Limit

Clause 16 Competent Authority for deciding reduced rates. (Shall be limited upto 5% of the Contract Value.)	Superintending Engineer, DC-X, CPWD, R.K. Puram, New Delhi.

Clause 18		
List of mandatory machinery, tools & plants to be deployed by the contractor at site	:	**Electrical works:** 1. Earth Tester 2. Megger 500 V 3. Line Tester 4. Test Lamp 5. Die &Vice 6. Chase Cutting Machine 7. Crimping Tools 8. Tong Tester and /or as per requirement at site / as per the contract provisions and as per direction of Engineer-in-charge.

Clause 19

Clause 19 C	…….. Authority to decide penalty for each default	Engineer – in - charge
Clause 19 D	…….. Authority to decide penalty for each default	Engineer – in - charge
Clause 19 G	…….. Authority to decide penalty for each default	Engineer – in - charge
Clause 19 K	…….. Authority to decide compensation for each default	Engineer – in - charge

Clause-25

Settlement of Disputes by Conciliation and Arbitration

(a)	Conciliator: -	ADG (RD), CPWD, New Delhi or his successor.
(b)	Arbitrator:-Appointing Authority	Superintending Engineer, DC-10, East Block-1, Level-7, CPWD, R.K. Puram New Delhi or his successor.
(c)	Place of Arbitration:	New Delhi

Clause 32							
"Requirement of Technical Representative (s) and Recovery Rates"							
Sl. No.	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical /Technical Representative	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32(i) (Rs per month per person)	
						Figures	words
1	Graduate Engineer or Diploma Engineer	Electrical/ Mechanical 1	Project Manager cum Planning/ quality/Site/Billing Engineer	2 or 5 respectively	1	15,000/-	Rupees Fifteen Thousand only

Note:

a. Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

b. Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 38 (Electrical works)			
(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates **2025** printedby CPWD with up to date correction slips	
(ii)	Variations permissible on theoretical quantities:		
	a)	Cement for works with estimated cost put to tender not more than Rs. 25 Lakh	NA
		For works with estimated cost put to tender more than Rs 25 Lakh	NA
	b)	Bitumen for all works.	NA
	c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	NA
	d)	Paints & Chemicals	NA

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GENERAL TERMS AND CONDITIONS

1. The wok shall be carried out as per CPWD general specifications for electrical works and as per the directions of Engineer-in-Charge.
2. The contractor must study the specifications and conditions carefully before tendering.
3. Before tendering, the tenderer shall inspect the site of work and shall fully acquaint himself about the conditions with regard to site, nature of soil, availability of materials, extent of leads and lifts involved in the work (over the entire duration of contract) including local conditions, traffic restrictions, obstructions and other conditions for satisfactory execution of the work. He should take into consideration all such factors and contingencies,while quoting his rates. No claim what so ever shall be entertained by the Department on this account.
4. Unless otherwise provided in the schedule of quantities, the rates tendered by the contractor shall be all inclusive. The rate quoted by the tenderer shall be inclusive of all taxes, duties & levies and shall apply to all heights, depths, leads and lifts.
5. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials, dewatering and other inputs involved in the execution of the items.
6. The contractor through his engineer shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limits shall be summarily rejected by the Engineer-in-Charge.
7. The samples of the materials shall be got approved from the Engineer-in-Charge before execution of the work.
8. The contractor or his authorized representative should always be available at the site of work to take instruction from department officers, and ensure proper execution of work.
9. The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and water ways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants/users of adjoining buildings.
10. **For any query regarding uploaded NIT, the firm can contact of the AE(E) (P) of the division on mobile No. 9871653899 or 01126730741**.

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Special Conditions

1. Due to restriction of driving slow moving vehicles / hand driven rickshaws in NDMC areas,the contractor has to make his own arrangement of motorized transportation & nothing extra shall be paid on this account. Legal action shall be takenagainst violation.

2. Due to security reasons, no land/space will be provided to contractor for store / fabrication / labour huts or any other purpose. Contactor has to make his own arrangement. Nothing extra shall be paid on this account.

3. The contractor shall execute the different items simultaneously, as far as possible so that minimum breakage and repairs are involved.

4. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall performit,in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise the same shall be got done at his risk and cost.

5. The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned. The department will however make all reasonable recommendations to the authority concerned in this regard.

6. Contractor may be require to execute the work under foul condition and nothing extra for executing the work in foul position / condition is payable.

7. The contractor shall be responsible to arrange at his own cost all necessary tools and plants required for execution of this work. Tools, plants and machinery required shall be brought to the site as and when required by the Engineer-in-Charge& same shall not be removed without the consent of the Engineer-in-Charge.

8. The contractor shall give a trial run of the equipment and machinery installed in the building for establishing the capabilities to achieve the specifications within laid down tolerances to the satisfaction of the Engineer-in-Charge before commencement of work.

9. All work and material brought and left upon the ground by the contractor or by his orders for the purpose of forming part of the work, are to be considered to be the property of the President of India and the same are not to be removed or taken away by the contractor or any other person without consent in writing of the Engineer-in-Charge but the President of India is notto be in anyway responsible for any loss or damage which may happen to or in respect of any such work or materials either by the same being lost or damaged by weather or otherwise.

10. The contractor shall be responsible for the protection of sanitary, water supply, drainage fittings and electrical fittings and fixtures against pilferages and breakage during the period of installation and there after until the building is handed over.

11. No payment will be made to the contractor for damage caused by rains, or other natural calamity during the execution of the works and no such claim on this account will be entertained unless specified otherwise.

12. The malba / garbage generated at site due to construction activities shall be removed from the site shall be disposed off by the contractor in suitable place as directed by the Engineer-in-charge. The surplus soil / earth shall be disposed of as per directions of Engineer-in- Charge.

13. Existing drains, drains, pipes, cables, overhead wires, sewer lines and water lines and similar services encountered in the course of the execution of the work shall be protected against the damage by the contractor at his own expenses. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

14. All materials which are specified to be tested at the manufacturer's work shall satisfactorily pass the tests in presence of the authorized representative of Engineer-in-Charge before being used in the work. In case all requisite testing facilities are not available at the manufacturer's premises, such testing shall be conducted at laboratory approved by the Engineer-in-Charge.

15. The work shall be executed and measured as per metric dimensions give in the Schedule of Quantities, drawings etc. (FPS units wherever indicted are for guidance only)

16. The contractor has to work in restricted area and in restricted time due to security reasons. He shall be bound by the instructions of security staff and Engineer-in-Charge in this respect.

17. The Department shall arrange entry passes for inside the building only, if required.

18. All the serviceable materials obtained from dismantling will be property of the department and will be deposited to enquiry office stores as directed by the Engineer-in-Charge for which no extra payment shall be made.

19. Any accidential liabilities will be the responsibility of the contractor.

TERMS OF PAYMENTS FOR THE CONTRACTOR

Payments to the Contractor shall be made after production of following documents:

a) Documentary proof of Material Supplied i.e. GST bills.
b) Proof of deposit of EPF and ESI Ccontribution, if applicable.

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COMMERCIAL AND ADDITIONAL CONDITIONS

General

1. This specification covers manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, final testing commissioning, i/c **one years** guarantee / warrantee period for the following work:-

1.1 Supplying, Installation, Integration & Commissioning of CCTV Surveillance System at S.J. Hospital, New Delhi.

1.2 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.

1.3 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

1.4 The work is to be executed based on NIT/ Tender conditions and as per drawing enclosed,if any. The manufacturer should also visit the site.

COMMERCIAL CONDITIONS

2. Type of Contract: The work to be awarded by this tender shall be treated as indivisible works contract. Therefore, condition(s) / rules specifically applicable to Supply Contract shall not apply.

TERMS OF PAYMENTS

3. The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

	Stage of Work	**CCTV System, equipment's & cabling etc. (as per schedule of work)**	**All other Items**
I	After initial inspection (wherever specified) & delivery at site in good condition on pro- rata basis.(Challan/ Bill/ Invoice / Packing list required)	70%	70%
II	On completion of pro-rata Installation	20%	20%
III	On testing, commissioning and handing over to the department for beneficial use	10%	10%

RATES

4. The rates quoted by the tenderer, shall be firm and inclusive of all taxes, duties, levies, octroi etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, overhead charges, general liabilities / obligations and other clearance. The escalation in the rates shall not be permitted.

COMPLETENESS OF TENDER

5. All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

STORAGE AND CUSTODY OF MATERIALS

6. To provide separate storage accommodation is not confirmed by the department. However, it shall be tried best to give space but **watch and ward of the stores and their** safe custody shall be the responsibility of the contractortill the final taking over of the installation by the department.

CARE OF THE BUILDING

7. Care shall be taken by the contractor while handling and installing the various equipment's and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

COMPLETION PERIOD

8. The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings, if necessary etc., arrangement of materials& equipment's, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-Charge.

RUNNING IN PERIOD, GUARANTEE AND PAYMENT TERMS

9. After the installation work has been completed by the contractor, he will conduct tests and adjustments as may be necessary to satisfy him-self that the equipment is capable of continuous running. **There after he will offer to the department a running-in-period of 7 days. The equipment will be operated and a log of all parameters will be maintained during this period. The contractor will be free to carry out necessary adjustment etc. during this period without stopping the equipment**. If any interruption or break down happens during running-inperiod then, 7 days shall be counted in continuity only after restoration of services. Record the design parameters will be made during this period to check the same are as per NIT requirements**This date of taking over of equipment after trouble free operation during the running in period shall be the date of acceptance.**

GUARANTEE/ WARRANTY/ DEFECT LIABILITY PERIOD/RELEASE OF SECURITY DEPOSIT AND PERFORMANCE GUARANTEE

10. All the equipment's shall be guaranteed for a **period of 12 Months** from the date of handing over the installation against unsatisfactory performance and /or break down due to defective design, error in programming, workmanship of materials etc. the equipment's or components, or any part thereof, so found defective during this guarantee period (Defect Liability Period)

shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final.

11. Sufficient trained and experienced personnel shall be made available to meet any exigency of working during the guarantee period of one year from the handing over of the installation.

12. The maintenance, routine as well as preventive, for **01 years** from the date of handing over of the installation (i.e. during the guarantee period) as per manufacturer's recommendations / standard practice shall be carried out and the record of the same shall have to be maintained. Nothing extra shall be paid on this account.

13. Only 50% of the Performance Guarantee of the tendered amount shall be released after recording of completion certificate. Rest 50% shall be released after completion of Defect Liability Period.

POWER SUPPLY:

14. A temporary single phase power supply of 1 KW shall be provided during execution of work, at single point inside the campus. Further arrangements for tapping power connection from this point shall be made by the contractor. Electricity shall be provided freeof cost for bonafide use of work.

WATER SUPPLY:

15. Water supply shall be made available by the department at one point in Campus free of cost.

ACCEPTABLE MAKES OF VARIOUS EQUIPMENTS:

16. The Makes and Models of the other than camera equipments, cables shall be submitted by the bidder within ten (10) days after date of start.

DATA MANUAL AND DRAWINGS TO BE FURNISHED BY THE TENDERER:

17. **With Tender:**The tenderer may furnish alongwith the tender, detailed technical literature, pamphlets and performance data for appraisal and evaluation of the offer.

After award of work

18. The successful tenderer shall be required to submit the drawing within **15 days of work for approval before commencement of installation.**

19. The successful tenderer should furnish well in advance three copies of detailed Instructionsand manuals of manufacturers for all items of equipment regarding installation, adjustments operations and maintenance i/c comprehensive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue and work shop procedure for repairs, assembly and adjustment etc. all in triplicate.

20. The contractor shall submit the relevant certificate at the time of supply of CCTV Cameras and Surveillance System etc.

Extent of work

21. The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation such tests and adjustments and commissioning as may be required by department. The term complete Installation shall not only mean major items of the IP CCTV system covered by specifications but all incidental sundry components necessary to complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in detail in the Tender document in connection with this contract.

22. Minor building works necessary for installation of equipment, foundation, making of opening in floors and restoring to their original condition, finish the necessary grouting etc.as required.

23. All the functionality as mentioned in schedule of work shall be got operated satisfactorily as per instruction of Engineer-in-charge.

COMPLIANCE WITH REGULATIONS & INDIAN STANDARDS, INDEMNITY & INSURANCE

24. All work shall be carriedout in accordance with relevant regulation both statutory and those specified by the Bureau of Indian Standard related to the work. In particular the equipment and installation shall complywith the following: -
    a) Indian Electricity Rules
    b) IS, BIS, UL Standard as applicable
    c) Workman's compensation Act
    d) Statuary norms prescribed by local bodies

25. Whenever any International standard is specified or is applicable, same may be indicated by the tenderer in the offer itself. Nothing in the sespecifications shall be constructed to relieve successful tenderer of his responsibility for design, manufacture and installation of the equipment's with all accessories inaccordance with currently applicable statutory regulations, safety code.

MOBILIZATION ADVANCE:

26. No mobilization advance shall be paid.

INSURANCE AND STORAGE:

27. All consignments are to be duly insured up to the destination from warehouse at the cost of contractor. The insurance covers shall be valid till the equipment's handed over duly installed, tested and commissioned.

VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION:

28. The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected. The submission of invoices, customs duty, transport bill etc concerned with the materials shall be required before making any claim to ascertain the genuineness.

SERVICELEVEL OF MAINTENANCE

29. The free maintenance during one years of guarantee / warranty period.

WORK TO BE DONE BY THE CONTRACTOR

30. In addition of supply, installation, testing and commissioning, as per schedule of work and as per CPWD specifications, the following works shall be deemed to be included within the scope of work to be executed by the contractor, Nothing extra shall be paid.

31. All minor building works for the installation such as cutting, making good the damage or any other damages during execution of works.

32. Tools and plants for the handling and installation of equipment's.

33. Protection requirement for the equipment's from shocks pressure, rain, dust storm during transportation and storage of equipment as required.

34. Necessary equipment for the commissioning & testing etc.

35. The equipment's must be insured during transit from manufacturer's place of work till installation and handing over to the department.

36. Safe custody of material and installation till they are taken over by the department.

INDEMNITY

37. The successful tenderer shall at all times indemnify the department consequent to this contract. The successful tenderer is liable to such accidents as may be done to any cause in accordance with the India Law and regulation and the department shall not the responsible for the accident or damage incurred or claims arising there from during the period of execution or construction under the responsibility of the successful tenderer and putting into the operation of the equipment's under the supervision of the successful tenderer is so far as the latter is responsible.The successful tenderer shall also provide all insurance as may be necessary to cover the risk without any extra payment.

SYSTEM TESTING

38. Soon after the work is completed, the contractor shall inform in writing to Engineer- In-Charge of the work for getting the complete system i/c all equipment's and controls thoroughly inspected and tested for satisfactorily performance.

39. Any defect noticed during these tests shall be speedily rectified by the contractor within a specified time failing which the same shall be got done at his risk and cost of the contractor.

TRAINING

40. The scopeof works includes training ofpersonnel fromclient Department (if they desire so) at site/ works. The training shall include on both the equipment (hardware) and software, as applicable. Nothing extra shall be payable on this account.

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List of acceptable make

1.	Bullet Camera / Dome Camera / PTZ Camera	:	As per STQC approved make
2.	Network Video Recorder	:	As per STQC approved make
3.	Hard Disk	:	Seagate / WD / Toshiba / Samsung
4.	Network Switch / POE switch	:	CISCO / Juniper / Nexxus / Extreme/ D-Link / Netgear / TP Link
5.	6 / 12 Port LIU	:	Derwiser / Nexans / Siemon / Systimax / D-Link
6.	Optic fiber cable / Patch cord	:	Derwiser / Nexans / Siemon / Systimax/ D-Link
7.	43" LED Monitor	:	Panasonic /LG / Samsung / Sony
8.	UPS System		Mitsubishi / Schneider (APC)/ Numeric / Vertiv / Fuji Electric / Eaton/ ABB / Riello/Pegasus / Amaron / Vinitec / Microtek
9.	SMF Batteries		Exide / Panasonic / Amaron /
10.	Wires/Cable	:	Polycab / Havells / RRKabel / BCH / KEI / Finolex /Plaza / PI Square / Rallison/ Lumino / D-Link
11.	Modular Switch/ Socket, Fan Regulator, Data socket outlet, telephone socket outlet, Modular plate / GI Box & other accessories / Bell push / Blanking plate	:	Legrand / North West/ MK Electric/ Crabtree / Anchor /Schneider **(Acceptable model shall have metal back plate only)**
12.	Rack	:	Powerride / Valrack / Dynamic/ MTS / R-Tech
13.	PVC conduit and accessories	:	Supreme / Pricne / Astral / Finolex / AKG
14.	Pump and accessories	:	Kirloskar / Armstrong / Xylem / KSB / Wilo/ Crompton / V-Guard / CRI Pumps / Havells
15.	RO System and accessories		Eureka Forbes / Ion Exchange / Thermax
16.	Water cooler	:	Voltas / Blue Star / Usha / Sidwal
17.	Water storage tank	:	Sintex / Unitank / Uniplast / Gangakalash / Lotus / SPL / Polycon / Sudhakar / Astral.
18.	Butterfly valve / Balancing valve / Sluice valve / Y Strainer / NRV / Air vessel / Nipple	:	Audco / Zoloto / Advance / Sant
19.	Pressure gauge / Thermometer	:	Danfoss / Honeywell / Orion Indfoss
20.	Phenolic laminated sheet	:	Hylem / Super Hylem / Formica (White colour ISI marked)
21.	VFD	:	L&T / ABB / Siemens / Schneider / Danfoss
22.	Steel conduit and accessories	:	AKG / BEC / NIC (ISI marked)
23.	BLDC Ceiling Fan	:	Havells / Orient / Usha
24.	Ceiling Fans / Wall Fans / Fresh Air /Air Circulator Fan / Exhaust Fans	:	Usha / Crompton / Havells / Orient / Khaitan / Almonard
25.	LED Fitting / Flood light / Street light / Post Top / LED downlighter / LED Batten / LED panel	:	Philips / LT / Regent / Neri / Halonix / Crompton / Orient
26.	MCB, MCB DB, RCCB, Contactor & other switchgear	:	ABB / Schneider/ Siemens / LK / Legrand
27.	MCCB (Ics = 100% Icu)	:	Schneider (NSX) / LK (D-Sine) / Siemens (3VL) / ABB (Tmax) / Legrand (DPX3)
28.	SMDB	:	Havells / BCH / ABB / HPL

29.	CAT6 / CAT6A Cable / Patch panel / Patch cord / IO Socket / RJ-45 Connector	:	Derwiser / Nexans / Siemon / Systimax/ D-Link / Netgear
30.	LED wall washer	:	Philips / Luker / Havells
31.	LED Acrylic Signages	:	Mtr. Lite / Agni / Impulse / Ceasefire / Lifeguard
32.	GSS Sheet	:	TATA / Jindal (Hisar) / SAIL
33.	GI / MS Cable Tray	:	KME / Rico / Indiana / Steelway
34.	Glass fibre / Nitrile Insulation	:	Supreme / Armaflex / K-Flex
35.	Class "O" Al. insulation foil	:	Supreme / Armaflex / K-Flex
36.	Geyser	:	Racold / Crompton / Havells /V-Guard
37.	Emergency LED light	:	Lifeguard / Impulse / Ceasefire
38.	Polyvinyl Chloride (PVC) / UPVC / CPVC Pipe		Astral / Supreme / Finolex / Prince
39.	Insect Killer	:	Avro / Fonda / Rita
40.	Steel	:	TATA Steel / JSW / Jindal
41.	Hi wall Split AC	:	Toshiba / Mitsubishi Electric / O-General / Hitachi / Panasonic / Haier / LLOYD
42.	Grille, Diffuser & Damper	:	Airflow /Ravistar /Cariyare
43.	Actuator / Damper	:	Honeywell / Danfoss / Siemens
44.	Photo thermal detector / Manual call point / Horn cum storbe	:	Bosch/Notifier/Siemens / Hochiki /Simplex / ASES / Edward
45.	Fire alarm armoured cable	:	Polycab/Havell's/R.R.Cable/Finolex / Lumino
46.	DWC Pipe and accessories (Only ISI marked product to be used)	:	Rex / Duraline /AKG / Gemini / Prince
47.	Refrigerant Piping	:	Rajco / Mandev / Camipro / Jindal / Mexflow
48.	Brass compression gland and Al. lugs	:	Dowells/Jainson /Braco /Comet
49.	Paint / Primer	:	Asian / Berger / Dulex / Nerolac
50.	Voltmeter, Ammeter, multi function meter, selector switch, CT, indicating light	:	L&T / Schneider / Siemens / Kaycee (Selector switch)
51.	GI / MS Pipe and accessories	:	TATA / Jindal (Hisar) / Surya
52.	Panel	:	Neptune / Tricolite / Adlec / Precision System Control / RP Controls / SPC Electrotech Pvt. Ltd. / Advance Panels and Switchgear Pvt. Ltd. / System Power Control / Associated Switchgears & Projects Limited (ASPL)
53.	Capacitor / Reactor / APFC relay / Active Harmonic filter / Auxiliary contactor	:	Neptune-Ducati / Schneider Electric / LK / Siemens / Epcos
54.	Single phase preventor	:	L&T / Minilec / BCH / Selec
55.	DLP / PVC trunking	:	Legrand / AKG / Precision / / MK / Press Fit
56.	Sealed Maintenance Free Batteries	:	Amaron / Exide / Panasonic / Okaya / Livguard
57.	Steel work with tubes	:	Apollo / Jindal (Hisar) / TATA / SAIL / RINL (VIZAG)
58.	G.I./Stainless Steel Wire Mesh	:	Sterling Enterprises / Trimurty Welded Mesh / Tiger Brand Super Welded Mesh / Banaraswala Wire Mesh
59.	GI Sheet / Profile sheet / GI Pipe	:	SAIL / TATA / Jindal (Hisar) /Bhushan/Ezylock of TATA JS
60.	S.S. Railing		Connect Architectural Products Pvt. Ltd./ Jindal Stainless Steel Ltd./ ICICH Industries/ Essal/ Dormakaba/ D Line/ Kitch/ Geze/ Sgrip/ Amardeep Steel
61.	Phase Sequence Corrector	:	Servokon / Schneider / L&T

62.	Cement	:	Ultratech / ACC / Ambuja / JK
63.	Thermal Insulation	:	Armacell / Knauf / Rockwool / Saint Gobain
64.	Control fuse	:	Eaton / C&S / Siemens
65.	Ceiling rose	:	Havells / Anchor / Cona
66.	Pole box	:	Sintex / Stanelec / Hensel
67.	Call bell / Buzzer	:	Havells / Anchor / Cona / GM
68.	DP Sheet steel enclosure	:	Havells / Schneider / Legrand / Siemens / C & S
69.	MS Octagonal Pole	:	Bajaj / Surya Roshni / Utkarsh / Wall mount
70.	Any other item not mentioned above	:	As approved by Engineer in charge

कार्यपालक अभियंता (वै)
स.ज.अ.वै.मं., के.लो.नि.वि.
नई दिल्ली

Central Public Works Department

NIT No. 108/EE(E)/SJHED/2026-27

Name of Work: MOEI & fans i/c compound light in NR bldg. like H-Block, H-Block Extension, Burn & Plastic and Old casualty etc. at Safdarjung Hospital, New Delhi. (SH: SITC of CCTV Cameras at Girls Hostel, MRD, Blood Bank, Laundry, Dental Department Waiting Area and Surgery department at S.J. Hospital, New Delhi).

SCHEDULE OF QUANTITY

S. No	Description of Items	Qty		Rate	Unit	Amount
1	Supplying Installation Testing and Commissioning of 5MP/6 MP IP IR Bullet Camera having following specifications, type of lens and features etc :- 1) Type of Camera: Bullet Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.006Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Lens Type & Focus: as given below. 9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source Inbuilt IR LED's with effective distance upto 50 Mtrs integrated IR and 30 Mtrs for colour view in night. 10) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 11) Wide Dynamic Range: WDR (120dB or more) 12) Digital Noise Reduction: DNR (2D/3D) On/Off 13) Streaming: Triple streaming, configurable					

	14) Video Streaming & Frame Rates: Triple streaming , configurable Main stream: 5MP/6MP @25/30 fps, Sub streams: D1@25/30 fps or better 15) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser 16) Profile Management: User configuration import, export 17) Security: User Authentication, Digital Water Marking 18) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card. 19) Recording Management: Format SD, overwrite, storage management, video to NAS device, 20)Edge Analytics: Tripwire, Intrusion, Motion Detection 21)Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 22) Alarm Support: It should have 1/1 Alarm In/ Out Port 23) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A / G.711Mu/AAC/ G.726 audio compreesion 24) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast,					
	25) System Capability: ONVIF26) VMS: Camera shall support open source VMS27)Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade.28) Ethernet: 1 RJ 45 10/100 Ethernet port29)Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source.30) Power Requirement: 12VDC/24V DC/PoE (802.3af)/ePoE31) Enclosure: IP67 weather proof, IK1032) Operating Condition: Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing)33) IR life: 40000 hours or higher34) Video Bit rate: 32 KBPS - 8 MBPS or better35) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
1.1	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) outdoor bullet Camera	40	Nos	12525.00	Each	501000
2	Supplying Installation Testing and Commissioning of 5/6MP IP IR Dome Camera having following specifications and features etc :-					

	1)Type of Camera: Dome Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.008Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s Shutter Support, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source Inbuilt IR LED's with effective distance upto 50 Mtrs integrated IR 30 Mtrs for colour view in night. 9) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 10) Wide Dynamic Range: WDR (120dB or more) 11) Digital Noise Reduction: DNR (2D/3D) On/Off 12) Streaming: Triple streaming, configurable					
	13) Video Streaming & Frame Rates: Triple streaming, configurable Main stream: 5/6MP @25/30 fps, Sub streams: D1@25/30 fps or better14) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser15) Profile Management: User configuration import, export16) Security: User Authentication, Water Marking17) Onboard Storage: Camera should support built-in Micro SD / SDHC / SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card.18) Recording Management: Format SD, overwrite, storage management, video to NAS device,19) Edge Analytics : Tripwire, Intrusion, Motion Detection20) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection21) Alarm Support: It should have 1/1 Alarm In/ Out Port22) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A/ G.711Mu/ AAC/ G.726 audio compression RTSPS, unicast,					

	23) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, 24) System Capability: ONVIF 25) VMS: Camera shall support open source VMS 26) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, , account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade. 27) Ethernet: 1 RJ 45 10/100 Ethernet port 28) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source. 29)Power Requirement: 12VDC/24VDC/PoE (802.3af)/ePoE 30) Enclosure: IP67 weather proof, IK10 31) Operating Condition: Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
2.1	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) Dome Camera.	102	Nos	12800.00	Each	1305600
3	Supplying Installation Testing and Commissioning of 2 MP IP IR Dome Camera having following specifications, type of lens and features etc :-					

	1) Signal System: PAL/NTSC, Signal to Noise Ratio: >50 dB, Camera should display Camera title, Date & Time in live & recorded video 2)Image Sensor: 1/2.8" or better progressive Scan CMOS to get color image even at night condition(Minimum Illumination: 0.006 Lux@ F1.4, AGC ON, 0 lux with IR or better) True Day & Night High Performance Mechanical IR cut filter with auto switch, Integrated IR Source (Auto, Manual)- Inbuilt IR LED's with effective distance upto 50 meter or better and 30 meter for colour view in night, Imaging: 1/3s to 1/30000s electronic shutter support, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 3) Compression (Minimum):- Video:- H.265 or better, H.264H, H.264, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 4) Wide Dynamic Range:- WDR (120db or more) 5) Digital Noise Reduction:- DNR (3D) On/Off 6) Video Streaming & Frame Rates :- Triple streaming , configurable ×1080)@25/30 720P@25/30 fps). (Main fps,Sub stream: streams 2MP (1920 minimum: 7) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser, Edge Analytics: Tripwire, Intrusion, Motion Detection					
	8) Cyber Security: AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot. 9) Onboard Storage: Camera should support built-in Micro SD / SDHC / SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card. 10) Recording Management: Format SD, overwrite, storage management, video to NAS device 11) Alarm Trigger : Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 12)Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast 13) System Capability: ONVIF, Camera shall support open source VMS 14) Ethernet: 1 RJ 45 10/100 Ethernet port 15) Audio : It should support 1 x Built-In Mic and 1/1 Alarm In/ Out for External Mic. and Speakers as per site requirement.					

	16) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE (802.3af)—to ensure continuous operation in the event of a failure in one power source. 17) Power Requirement: 12VDC/24 VAC/PoE (802.3af)/ePoE 18) Housing/ Enclosure:- IP67 weather proof, IK10, Metallic body 19) Operating Condition:- Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 20) IR life: 40000 hours or higher 21) Video Bit rate: 32 KBPS - 8 MBPS or better 22) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
3.1	4MP @ 25/30fps @1440P (2560 x 1440) Dome Camera with 2.8/ 3.6/ 6/8/12 mm fixed lens (as per site requirement).	23	Nos	8048.00	Each	185104
4	Supplying Installation Testing and Commissioning of PTZ (Pan, Tilt and Zoom) IP IR Camera having following spcifications and features etc :-PTZ (Pan, Tilt and Zoom) IP IR Camera having following spcifications and features etc :-1) IP IR PTZ Camera: Motorized PAN TILT ZOOM with IR2) Image Sensor: 1/2.8" or better progressive Scan CMOS3)Signal System: PAL/NTSC4) Minimum Illumination: 0.008 Lux@ F1.6, AGC ON,, 0 lux with IR or better5) Imaging: 1/1s to 1/30000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, Image Rotation, Multi zone Privacy Masking (Up to 24 Area), HLC, Defog, Region Of Interest and EIS features.6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both.7) Signal to Noise Ratio: > 50 dB8) Event Notification: Through Relays, E-Mails or FTP9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source-Inbuilt IR LED's with effective distance. The camera should have IR LED’s and cover distance up to 150 meter or above					

	10) Auto Tracking: The camera should be equipped with Deep- learning-based auto tracking function using simultaneously all of the panning, tilting and zooming should be available. When a motion is detected in a registered monitoring area, the camera should track the motion (object) and capture it. 11) Pre/Post Event Buffering: The camera should support atleast of 5 seconds of pre & post event buffering. 12) Presets: 300 Presets 13) Video Compression (Minimum): H.265 or better, H.265, H.264H, H.264, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 14) Wide Dynamic Range: WDR (120db or more), HLC & BLC 15) Digital Noise Reduction: DNR (2D+3D) On/Off 16) Image Setting: Rotate Mode, ROI ,EIS, Defog, saturation, brightness, contrast, sharpness adjustable through client software or web browser 17) Profile Management: User configuration import, export 18) Cyber Security: Configuration encryption, AES 256-bit Encryption, Digest, account lockout, video encryption, IP/MAC filtering, trusted boot, trusted upgrade, trusted execution 19) Onboard Storage: Camera should support built in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB Memory. 20) Recording Management: Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login					

	21) Edge based Video Analytics & Alarm Trigger: Motion / tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection, Tripwire, Intrusion, Object Abandon/ Missing, SMD, Face Detection22) Network Protocol: SFTP, IPv6, IPv4, DNS, NTP, HTTP, HTTPS, SNMP, TCP/IP, PPPoE, NFS, ICMP, DHCP, SMTP, RTSPS.23) System Capability: ONVIF Profile S, G & T. CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation).24) VMS: Camera shall support open source VMS25) Connectivity: 1x LAN RJ-45 (10/100Base-T)26) Audio Support: Audio Interface : The camera should have 1/1 Audio In / Out to connect External Mic and Speaker Audio Compression : PCM, G.711U/A, G.711MU, G.726, MPEG2- Layer2, G.722.127) Alarm In/Out : Alarm In/out- 7/2 Ch In/Out28) Power Input: The camera should support simultaneous dual power input—DC/ AC (via power adapter) and PoE (802.3af)— to ensure continuous operation in the event of a failure in one power source.					
	29) Power Requirement: 24 VDC, 2.5 A (± 25%), PoE+ (802.3at) 30) Enclosure & Weather Proof Standard: IP67 weather proof and IK10, TVS 8000V lightning proof, surge protection, voltage transient protection 31) Operating Condition:- Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
4.1	5MP IP IR motorized PTZ @25/30fps or better camera, Triple streaming, configurable on resolution:- Main stream: 5MP@25/30 fps Sub streams: 1080p@25/30 fps, varifocal lens 3.95mm (±5mm) ~ 177.75mm (±5mm) or better with Automatic & manual Focus Adjustment provisions, 32x Optical zoom and 12x Digital zoom with angle of view H: 65.7°–1.9°V: 39.4°–1.1°D: 73.1°–2.1, PAN Travel: Pan: 0° ~ 360° endless, Manual Pan: 260° /s, Preset : 300° /s, Tilt Travel: Tilt: - 20° ~ 90°, auto flip 180°, Manual Tilt: 120° /s, Preset : 200° /s	2	Nos	107974.00	Each	215948

5	Supplying Installation Testing and Commissioning of following Channel Network Video Recorder (NVR) with camera licenses to record for all channels having spcifications and features etc as mentioned below :					
	1) Network Video Recorder Embedded/ Installed OS (Linux) along with Camera Licenses to record per NVR and to provide a live view, storage and simultaneously Multi-channel playback of all IP camera or more and must be ONVIF with minimum support of 384 Mbps incoming Bandwidth.2) NVR should support video compreesions : H.265 or better, H.264, MJPEG.3) Must support 1 channel RCA Input, 2 channel RCA Output for Two-way Talk with G.711U/A, G.711u, PCM, G726 audio compressions.4) Intelligent auto power on when power resumes after power outage.5) Storage: It should support minimum 8 SATA Slots with 16 TB capacity/ Slot and RAID support of RAID 0/1/5/6/10. (4 SATA (32 channel) & 8 SATA slot for 64 channel)6) Connectivity Interface : 2 Nos. x 10/100/1000 Mbps Ethernet Ports, 1x RS485, 1x RS232, 1x eSATA Port7) Backup Interface : Its should have 4 Nosx USB port (2x USB3.0, 2xUSB2.0)8) Video Output Ports: 2x HDMI and 2 VGA9) Alarm Ports: It should have 16/8 Ch In/ Out ports to connect various type of external sensors and output devices like hooter/ Siren etc.10) Email & SMS Altert options: Option for SMS/ Email Alerts to minimum 5 designated mobile number for power failure, HDD failure, vandalism, tempring, network disconnection and panic11) Web & Mobile Application: Web, Mobile app (For iPhone, iPad, Android Phone) for alerts and viewing.12) Protocols: HTTP, HTTPS, TCP/IP, IPv4/IPv6, UDP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search, Multicast, Auto Registration, ONVIF 21.12 (Profile T, Profile S, Profile G), CGI, SDK and OEM Cloud for remote monitoring without any public IP need.					

	13) Standards: CE, FCC, RoHS, BIS Certified 14) Power Supply : Should support AC100-240V, 50/60Hz Power supply. 15) Operating Condition : -5°C to 50°C, humidity 90% (max) (non-condensing) 16) The VMS application shall support all the features & functionalities of the offered cameras. 17) VMS should consist Licenses for all channels to record Cameras with General, motion detection, intelligent, alarm and POS recording modes. VMS should be provided with Camera Licenses , with no dependency of VMS licenses by binding with the MAC address of the cameras to achieve the functionality. 18) The NVR OEM shall be responsible for providing a mobile application compatible with both Android and iOS devices, enabling remote monitoring and playback of cameras/NVR footage. 19) The OEM must provide its own DDNS server hosted in India, eliminating the need for a public IP address for remote monitoring over the Internet. 20) Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode					
	21) It should support Resolution: 32MP; 24MP; 16MP; 12MP; 8MP; 5MP; 4MP; 1080p; 720p; D1; CIF; QCIF22) When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page23) The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm24) It should have Web and GUI interface.25) Built-In Artificial Intelligence: NVR should have built-in AI :- - 2 Channel face detection and recognition, - Minimum 4 Channel perimeter protection, - Minimum 8 Channel Smart Motion Detection26) Face Recognition Database Capacity: It should support total Blacklist and Whitelist capacity of Minimum 20,000 Faces or more with Face Detection speed of 12 face images/sec and facility to add Name, gender, birthday, address, credential type, credential No., countries & regions and state to each face image.					

	27) Face & Human Attributes Search: Search Pictures/ Video by Gender, age group, glasses, expressions, face mask, beard, Top color, top type, hat, bag, age, gender and umbrella. 28) ANPR Capability: It should support ANPR Camera with License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle registration location etc vehicle attributes. 29) Alarm Notifications based on: Motion detection, video tampering, video loss, scene changing, PIR alarm, Camera external alarm, Face detection, face recognition, perimeter protection (intrusion and tripwire), ANPR, people counting, stereo analysis, crowd distribution, heat map, Disk Full, Storage Error, IP Conflict and abnormal behavior of fan, cybersecurity exception 30) Alarm Notification should be linked with Recording, snapshots, Camera external alarm output, buzzer, logs, presets and email. 31) General AI Based Search: Search Pictures by channel, time, event type, target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection.					
	32) Smart playback function: Should support smart search for the selected area in the video and smart playback to improve the playback efficiency 33) VCA (Video Content Analytic): Should support multiple video contented analytics based on camera analytics 34) Analytics by NVR: Perimeter protection and face recognation					
5.1	64 Channel Network Video Recorder (NVR) having display split :- Main screen: 1/4/8/9/16/25/36/64, 2nd screen: 1/4/8/9/16	3	Nos	82600.00	Each	247800
6	Supplying, Installation, Testing and Commissioning following capacity Serveillance grade Hard Disk with upto 256MB/s Transfer Rate, 256 MB Cache, 7200 RPM Disk Speed, 3.5 inch form factor, SATA Interface, BSMI, ICES-003/NNB-003, CE, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB-Scheme, TUV, UL Certifications.					
6.1	10TB (Terabytes)	18	Nos	24798.00	Each	446364

7	Supplying, Installation, Testing and Commissioning of following size LED display (LED monitor) industrial grade with 3840x2160 resolution or better, USB playback, bluetooth and miracast connectivity, 4X HDMI 2.0, DP 1.2, HDR 10/10+, brightness: 500-nits or better, Video wall mode should be available, contrast ratio: 1200:1, OPS slot, viewing angle (H/V): 170°/ 170°, response time less than 12ms, Display control shall be on monitor screen and programmable with remote (remote shall be supplied with system), Key Board, Optical Mouse, etc. as required.					
7.1	55 inch or larger	3	Nos	82057.00	Each	246171
8	Supplying, installation, Testing and commissioning of following capacity 8 port Layer 2 indoor Network Switch having features and specifications etc. as mentioned here under: Minimum 8 X RJ-45 Gigabit Ethernet Ports and additional 2 X 1G SFP Ports with non-blocking architecture by having Switching capacity of minimum 20Gbps and packet forwarding rate of 14Mpps or higher, 8K MAC table. Internal dual AC Power supply with operating temperature of -5 0C to +50 0C. Jumbo frame: 9KB or higher, IGMP Snooping, IGMP snooping querier and support for IGMP Snooping Fast Leave, Should create 250 or more MLD groups, MLD Snooping, Per VLAN MLD Snooping C MLD Snooping Fast Leave, STP, RSTP, MSTP, Loopback detection, Multicast filtering, VLAN Tagging, QOS: 8 Que per port, WRR, IPv4/IPv6 Interface : minimum 100 IPv4 static route entries and minimum 50 IPv6 static route entries, 700 Acess Control entries, SSH CSSL for IPv4 and IPv6, 802.1x, ARP Spoofing, DHCP Snooping and server screening, IP+MAC+Port Binding, Per Port Bandwidth Control, 802.1X Authentication (Supports local/RADIUS database, Port-based Access Control and EAP, OTP, TLS, TTLS, PEAP Support) Cable Diagnostic feature, LLDP, LLDP-MED, SNTP/NTP, RMON, SNMP v1,v2c, v3 and SNMP Traps. Certifications:CE, FCC marked,UL/EN, RoHS and relevant MTCTE (TEC) / BIS compliance/certification as applicable etc. complete as required.					
8.1	8 port PoE Layer 2 Network Switch with PoE Support of 130W or higher with each copper port supporting 802.3at PoE+	23	Nos	35091.00	Each	807093

9	Supplying, installation, Testing and commissioning of following capacity 24 port Layer 2 indoor Network Switch having features and specifications etc, as mentioned here under: At least 24 X RJ-45 Gigabit Ethernet Ports and additional 2 X 10G Base -T with 4 X SFP Ports with non-blocking architecture by having Switching capacity of min. 128Ghps and packet forwarding rate of 95Mpps or higher, 16K MAC table. Console Port, USB port, Stacking support of min. 4 units per stack. Internal dual AC Power supply, STP, RSTP, MSTP, BPDU Filter, BPDU Restriction, Min. 9K Jumbo Frame, LBD, IGMP Snooping V1/V2/V3, MLD Snopping V1/V2. IGMP /MLD Groups IK or more, IPv4 / IPv6 Loopback Interface, 16 L3 IP Interface, Ipv6 ND, VRRPv3, UDP Helper, ECMP. VLAN: 802.1Q, Port based, Q-in-Q, Multicast VLAN, Protocol VLAN, VLAN Trunking, DHCP Snopping, Server, server Screening. RADIUS, TACACS+ Authentication, QoS: 802.1P, 8 queues per port, QoS: WRR, Strict + WRR, WRED, 802.1p. ACL: MAC based, IPv4C IPv6, TCP/UDP Port number, time based ACL, TFTP Client, SNMP V1, v2c, v3, SNMP traps, RMON, DHCP server, relay, client, LLDP, LLDPMED, OAM, Dying Gasp, 802.3ah, sflow, RIP, OSPF v2/v3, policy based route, SSL, SSH. 6 kV surge protection on all Gigabit Ethernet ports and on all GE RJ-45 access ports. Certificate: FCC, CE marked, UL/EN, RoHS and relevant MTCTE (TEC)/BIS Compliance/certification as applicable etc complete as required.					
9.1	24 port PoE Layer 2 Network Switch with PoE Support of 370W or higher with each cooper port supporting 802.3at PoE+ min.	2	Nos	125393.00	Each	250786
10	Supplying, Installation, Testing and commissioning of small form-Pluggable (SFP) for Network Switches. Must be hot Pluggable, RoHS Complaint, etc. complete as required.					
10.1	10 G SFP + Single Mode/Multi Mode	50	Nos	14972.00	Each	748600
11	Supply of 24 port Cat6 Patch Panel loaded. Must be of 1U height with clear label holders and white label with the panel. 24 Ports Cat-6 Patch Panel should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D	25	Nos	5278.00	Each	131950
12	Supplying, Installation, Testing and commissioning of following CAT6A Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D					
12.1	Copper Patch Cords of length 1m (3ft)	168	Nos	173.00	Each	29064

13	Supplying, drawing, Installation, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy indentification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA- 568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL.					
13.1	1 Run of cable	2500	Mtr	62.00	Mtr.	155000
13.2	2 Run of cable	300	Mtr	99.00	Mtr.	29700
13.3	3 Run of cable	200	Mtr	137.00	Mtr.	27400
14	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color, Use for 24- 26 AWG stranded wires etc. complete as required.	168	Nos	9.00	Each	1512
15	Supply and fixing following port Rack Mount loaded LIU with pigtail, Front-mounted cable saddles for jumper management, suitable to manage both splices and terminations, Pre- assembled shelves in multiple configurations, Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers, 2 fiber spools built-in for 900µm tight buffered fiber storing, Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter, Removable front and rear covers for better access to interior of LIU, Should be Single / Multi mode LC Type fully loaded. Accessory kit consists of cable ties, mounting screws, and spiral wrap tube etc complete as required.					
15.1	24 Port LIU	25	Nos	10049.00	Each	251225
16	Supply and fixing of following size Wall Mount Rack having Fixed Structure with 0.8mm CRCA Sheet, completely knocked-down condition (CKD) Shape, Vertical Mounting Rail 1.6 mm with 'U'Marking, Minimum 2 cable entry/exit provision at Top and bottom with rubber protection, Front 5mm Toughened Glass with lock, wall mounting kit, Powder coated Color- RAL- 7035, complied with UL & RoHS, 2 x 6 sockets 16A power					

	distribution units, 3 numbers closed cable rganizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.					
16.1	6 U Rack	25	Nos	6939.00	Each	173475
17	Supplying and drawing following core Fiber Optic Cable having corrugated steel armoring. The Fiber should be SM Fiber Central -loose tube filled with Thixotropic jelly, duly following Standards: ISO 11801, IEC 60793-1/60794-1-2, ITU-T-REC G.652D and Telecordia GR-20-core, High quality Electro Chromium Coated Corrugated Steel tape (ECCS) and HDPE- Sheath, Operating ambient Temperature should be – 5 0C to +50 0C and Storage Temperature shall be – 5 0C to +50 0C, Max Attenuation ± 0.36 (db / km) at Operational Wavelength 1310 nm and ± 0.22 db / km at Operational Wavelength 1550 nm. type of fiber should be 9/125 / G.652D & Refractive Index should be 1.4670/1.4675. The value for Mode-filed, Cladding Diameter 9.2 ± 0.4 µm and 125 ± 0.7 µm correspondingly. The Dispersion value < 3.5 < 18 ps/nm-km and PMD value < 0.2 ps/km and Cable Cutoff wavelength < 1260 nm i/c splicing & marking etc complete as required.					
17.1	Single Mode Optical 6 Core fiber cable	1500	Mtr.	64.00	Mtr.	96000
18	Supplying and fixing Patch Cord of Optical Fiber Multi Mode or Single Mode LC to LC Fiber Duplex having high precision ceramic ferrule with good concentricity, Fiber corning single mode G652D, Cable Type 2mm with Mechanical specification Apex Offset < 50 µm, Fiber Height + 100 nm, End-face radius of Curvature 7mm < R <25mm, Repeatability < 0.2db, Working ambient Temperature – 5 0C to +50 0C, Storage Temperature – 10 0C to +50 0C, Length -- 2meter, Type -- LC-LC Duplex etc complete as required.	50	Nos.	705.00	Each	35250
19	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making recessed conduit as required.					
19.1	25 mm	3700	Mtr	168.00	Mtr.	621600
19.2	20 mm	3910	Mtr	151.00	Mtr.	590410

20	Supply, laying, testing and commissioning of following size copper conductor, XLPE insulated, PVC/PE sheathed, armoured cable of 1.1 kV grade, laid in the existing surface/recessed PVC conduit/HDPE pipe, including dressing, clamping, jointing/termination with suitable cable glands, lugs and all necessary accessories, complete as required.					
20.1	3 Core 2.5 Sqmm	60	Mtr	549.00	Mtr.	32940
21	Supplying and laying of following size medium class HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation,road cutting & repairing road and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
21.1	25 mm dia	650	Mtr	218.00	Mtr.	141700
22	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
22.1	8 way (4 + 24), Double door	2	Nos	6337.00	Each	12674
23	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
23.1	63 Amp	2	Nos	1115.00	Each	2230
24	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
24.1	25 Amp	6	Nos	2141.00	Each	12846
25	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
25.1	Single pole	40	Nos	285.00	Each	11400
26	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required	2	Nos	14.00	Each	28

27	Providing of following size copper conductor, XLPE insulated, PVC/PE sheathed, armoured cable of 1.1 kV grade at site, complete as required.					
27.1	3 x 4 Sq mm Armoured Copper Cable	3500	Mtr.	710.00	Mtr.	2485000
28	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL / PVC pipe as required.					
28.1	Upto 35 sq. mm	3500	Mtr.	47.00	Mtr.	164500
29	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.					
29.1	1 or 2 Module (75mmX75mm)	25	Nos	354.00	Each	8850
30	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
30.1	3 pin 5/6 A socket outlet	25	Nos	136.00	Each	3400
31	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
31.1	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	3	Mtr.	1253.00	Mtr.	3759
32	Providing, erecting and fixing of 6 metre height Mild Steel Octagonal Poles for installation of CCTV cameras, fabricated from suitable grade steel sheets (minimum 2 mm thickness), duly welded and hot-dip galvanised after fabrication, with adequate zinc coating to ensure excellent resistance against corrosion and weathering. The pole shall be complete with suitable base plate, foundation bolts, nuts, washers, stiffeners, suitable CCTV camera mounting bracket/arm, cable entry opening, internal cable routing arrangement, access door with lockable cover plate and earthing stud, including excavation, RCC foundation, grouting, erection, alignment and fixing in position, complete in all respects as per directions of the Engineer-in-Charge.	2	Nos	9187.00	Each	18374
			Grand Total			**9994753**

कार्यपालक अभियंता (वै)
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नई दिल्ली