



**BHAGYANAGAR GAS LIMITED**  
(A JOINT VENTURE OF HPCL & GAIL)

**BID DOCUMENT FOR**

**Tender for the Procurement an Installation of CCTVs  
in Mother Stations and COCO Station in Hyderabad,  
Vijayawada and Kakinada**

**UNDER LIMITED DOMESTIC  
COMPETITIVE BIDDING**

**Bid Document No.: BGL/274/2014-15**

**VOLUME-II of II**



Bhagyanagar Gas Ltd.  
**BHAGYANAGAR GAS  
LIMITED**

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**VOLUME  
II OF II**

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## **SECTION – 7**

# **SPECIAL CONDITIONS OF CONTRACT (SCC)**



### SCOPE OF WORK

#### **1.0 INTRODUCTION**

For ensuring effective surveillance of outlet premises of BGL Mother Station at Hyderabad, Vijayawada and Kakinada, COCO Daughter booster station at saroor nagar in Hyderabad as well as to create tamperproof record for post event analysis, CCTV Systems are being deployed in the various locations of above mentioned stations.

#### **1.1 BRIEF DESCRIPTION OF PROJECT**

BGL has been operating CNG mother station in Hyderabad, Vijayawada and Kakinada, DBS in Saroornagar, Hyderabad. For the provision of effective surveillance of the above said stations CCTV System along with all its associated systems is planned to be deployed.

The envisaged CCTV system shall minimum include CCTV Cameras, its Management Servers/NVR(Network Video Recorder), Storage, Application Softwares, Monitor, Network components, networking cables/connectors etc.

#### **LOCATIONS:**

Locations are mentioned separately in the Service requisition of Tender document.

#### **SCOPE OF SUPPLY:**

1. IR Colour camera -Dome type with 1.3 MP Sony Super HADII, 20 Mtr IR Distance, 0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens) **Make: CP plus, Division, Hi Focus or Equivalent.**
2. IR colour camera with Bullet with 20 Mtr Range, 1.3 MP, 3.6 mm/6mm lens 700 TVL-Bullet, 1/3" Sony Super HADII. **Make: CP plus, Hikvision, Hi Focus or Equivalent.**
3. IR colour camera with Bullet with 30 Mtr Range, 1.3 MP, 3.6 mm/6mm lens 700 TVL-Bullet, 1/3" Sony Super HADII. **Make: CP plus, Hikvision, Hi Focus or Equivalent.**
4. IR colour camera with Bullet with 50 Mtr Range, 1.3 MP, 3.6 mm/6mm lens 700 TVL-Bullet, 1/3" Sony Super HADII. **Make: CP plus, Hikvision, Hi Focus or Equivalent.**
5. 22" LED Monitor(Make: LG ,Samsung or Equivalent)
6. 2 TB Hard drive for back up in HD format.(Make: Sony, Seagate, Toshiba, transcend or equivalent)
7. 16-channel/8 Ch. stand alone Network DVR, 3g supporting, Real Time HD recording HDMI/VGA/TV simultaneous video **Output, Support** 1 SATA HDD upto 4 TB, CIF(1~25/30fps)
8. Cables (3+1)with accessories.(Make: Finolex, Surabhi or equivalent)
9. Network Rack Box
10. PVC pipe 1"inch dia for casing to cables.
11. Power supply **Adaptor** (Suitable).
12. Camera housing(Required for Kakinada for providing extra protection to camera due to coastal area)

The quantities are mentioned are mentioned in SOR.



## **2.0 DETAILED SCOPE OF WORK**

The Vendors scope of work defined in this document shall include but not be limited to the following:

Site Survey, project management, system design, detailed engineering, procurement and supply of all related goods and providing all related services including design/engineering, installation, testing, integration, commissioning, test run, documentation, warranty, training, etc.complete in all respect for implementation of CCTV systems at our four stations.

The detailed scope of work & supply shall include but not limited to the following:

### **2.1 SITE SURVEY, SYSTEM DESIGN & ENGINEERING:**

The vendor shall be fully responsible for detailed design/engineering of the supplied CCTV systems (the envisaged CCTV system includes the CCTV Cameras, its Management Servers, Storage, Application Softwares, Client machine with High-Resolution Monitor, Network components ,networking cables/connectors etc. as a minimum). Under design & engineering, the vendor shall consider required Configuration of CCTV system, integration with existing network, Technical Specifications & requirement of tender document as a minimum. For design & engineering of the system, the bidder / vendor may take up the site survey activity.

The Equipment/System design has to be approved by BGL before actual manufacturing/ supply of the equipment. In this regard, with the bid, the bidder shall furnish the complete detailed of the offered solution, clearly specifying / depicting various functional modules and their inter-connections setup.

### **2.2 INSTALLATION, TESTING AND COMMISSIONING:**

#### **2.2.1 Installation**

BGL shall provide space and power for installation and commissioning of supplied system/equipment in all mentioned locations.

For the installation of supplied CCTV systems & associated items at site, the vendor shall carry out the following site preparation works as a minimum after conducting site-survey in our mentioned locations after obtaining the approval from EIC on installation activity plan:

1. Installation & fixing of CCTV cameras along with restoration of floors or walls or ceiling or any structure/pathways after masonry or drilling works.
2. Installation & fixing of rack/cabinet of the CCTV system along with restoration of floors or walls after masonry or drilling works.
3. Installation of suitable type of cable trays/conduits for routing, distribution & extension of various cables. These cable trays/conduits shall be installed / mounted suitably in vertical or horizontal planes keeping in view of the aesthetics of equipment room.
4. The power cable should not be loaded with more than 80% of maximum load requirement of vendor supplied equipment.



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5. The Underground cable shall be laid with minimum depth of 300 mm and Width of minimum 100 mm.
6. All types of power cable termination and earth cable termination shall be carried out using copper lugs.
7. Suitable gland shall be provided for all type of cabling.
8. The proper earthing system should be followed and it may be connected to our existing earthing system.
9. All types of cables shall be labelled on both ends for the identification.
10. Before taking up the installation of CCTV system & associated items, the same shall be checked for completeness as per the specifications of the same as required. Installation shall be carried out in accordance with the installation manuals and approved installation drawings in the best workmanship.
11. Vendor shall provide suitable numbers of manpower of required skills & technical expertise at his own cost for completing the work within the stipulated time frame.
12. Vendor shall bring all installation tools, accessories, special tools, spares parts etc. at his own cost as required for the successful completion of the job. Vendor shall include all installation materials required for proper installation of the CCTV systems & associated items. These shall include but not be limited to, all connectors, inter-bay and inter equipment cables, power supply cables and connectors, power distribution boxes, anchoring bolts, nuts, screws, washers, main distribution frames, junction boxes etc.
13. The installation of equipments shall be done as to present neat and clean appearance in accordance with approved installation document drawings. All inter bay, power supply and other cables shall be routed through cable trays. No cable shall be visible. All through wall openings, trenches etc. shall be properly sealed to prevent the entry of rodents, insects and foreign materials.
14. System programming of the CCTV cameras, Storage along with its software/hardware & all other associated items as per BGL's requirement shall also be taken up during installation.

If during installation and commissioning any repairs are undertaken, Vendor shall arrange his own spare parts for such activities till the system has been finally accepted by the Owner. A detailed report & log of all such repairs shall be made available by the vendor to Owner/Engineer and shall include cause of faults and repair details.

A detailed time schedule for the activities to be undertaken shall be submitted by Vendor to Owner/Engineer to enable their representatives to be associated with the job.

### **2.2.2 Integration**

All the systems & sub-systems shall be integrated to meet the functional requirement as specified elsewhere in this tender document.



### **2.2.3 Pre-Commissioning**

Upon completion of the installation/erection and integration of CCTV Systems & Associated items, they shall be jointly inspected by Vendor & BGL's representatives before start-up operations are undertaken. The correctness and completeness of the installation and integration as per manufacturer's manual & approved installation documents shall be gauged leading to pre-commissioning activities at site.

- 1) During pre-commissioning, if any fault occurs to CCTV systems/associated items, vendor shall identify the same and provide report/history of all faults to the Owner.
- 2) During installation and pre-commissioning of the CCTV systems /associated items, vendor shall have enough number of commissioning spares so that the installation is not held up because of non-availability of commissioning spares.
- 3) The vendor shall carryout necessary system provisioning/configuration for making new CCTV systems operational as per requirement.

### **2.2.4 SITE ACCEPTANCE TEST (SAT)**

On completion of Pre-commissioning, site acceptance testing shall be conducted on the system as per approved SAT procedures and its constituents by the vendor under the presence of Engineer in charge.

The tests shall include, but not be limited to the following:

1. Checks for proper installation as per BGL requirements for all the system of the CCTV System/associated items.
2. Checks for proper integration of CCTV systems/associated items with our existing systems as per the BGL requirements.
3. Functional testing covering the features & functions of CCTV systems along-with its associated items to meet the BGL requirements.
4. Any other test not included in SAT document but relevant for site operation.

### **2.2.5 TEST RUN:**

Upon conclusion of the Site acceptance testing (SAT), the bidder shall keep the CCTV system and associated system/equipment commissioned for 7 days for "Test Run". If during the "Test run", any defect / fault are noted in the system, the Vendor shall identify & rectify the same and provide the report, history of the fault to GAIL.

Ideally, during the "Test run", no shutdown of the system due to failure of any module should happen. If the system fails to come up to the guaranteed performance, the Vendor, within a period of seven (7) days shall take any corrective measures & resubmit the system for another "Test run".

Again, if the system fails to reach the guaranteed performance after the second test run, the Owner shall be free to take any action as he deems fit against the Vendor and to bring the system to the guaranteed performance with the help of a third party at the expense of the Vendor.



#### **2.2.6 COMMISSIONNING:**

The CCTV system(s) and associated system/equipment shall be considered to be commissioned and taken over, only after successful completion of Test run. However, the takeover by owner shall not be delayed for non completion of minor works and such jobs which may not affect the desired CCTV operation/function, and such works/jobs shall be completed by the vendor in accordance with the plan / schedule, which has been approved by the Engineer-In-charge. The date of successful completion of Test run shall be treated as the 'Completion Date' for such purpose as application of contractual provisions such as 'Price reduction schedule for delayed completion' etc.

#### **2.4 WARRANTY:**

The system shall be guaranteed to give specified performance for a period of 12 (twelve)months from the date of acceptance of the system by the owner. This warranty shall surviveinspection of goods and acceptance of the system.

The details of services to be provided under warranty shall include but not limited to the following for all supplied items under this project and all the cost for these supports are in the scope of vendor:

#### **2.5.1 TECHNICAL SUPPORT SERVICE:**

If any technical problems happen during this warranty period, the vendor shall provide on-site technical support all throughout the warranty period of 12 (Twelve) months.

For the same, vendor's engineer/personnel, who shall be capable of trouble shooting and looking after the health of the system, shall be made available along with required tool, tackles & maintenance spares at BGL locations to resolve the problem efficiently. Additionally the following shall also apply:

1. During the warranty, the Vendor shall use his own instrument, spares, man-hour, communication facilities, hardware, software, materials, etc. for the rectification of any problem.
2. **ii.** The "turnaround time" for the rectification of the problem shall not exceed 48 hours.

(Turnaround time: From the time of placement of first service call to Vendor's representative until the system is restored fully to the satisfaction of the Owner.)

#### **2.6 TRAINING:**

There shall one training course, at BGL site when the system will be made operational in all three cities.

#### **2.7 DOCUMENTS:**

- 2.7.1 On the completion of the project, Vendor shall provide the technical Manuals and software details if any required. Also the bidder shall be provide the all technical documents related to the scope work.
- 2.7.2 Any other document not specifically mentioned above but required for satisfactory Implementation, operation and maintenance of the system.
- 2.7.3 The vendor shall provide any other work not mentioned above, but required for





completing the work in all respect for completing the work in all respect to the satisfaction of the owner.

### **3.0 DESIGN GUIDELINES**

- 3.1 Certain industry standard terms have been mentioned in this tender document. Irrespective of what nomenclature a vendor/OEM uses or follows for its own products and services portfolio, bidders offering shall have to be mandatory adapted to be in synch with the standardized terms and their definitions as stated in the tender document.
- 3.2 The equipment must be newly manufactured, free from all defects, manufacturing, material or otherwise. If any part/component/ subsystem is found to be defective, the same shall be repaired/replaced free of all costs to BGL. The decision of BGL for the acceptance of repaired component/part etc. shall be final.
- 3.3 The system design shall be flexible enough to meet future expansion program up to the maximum capacity of each system and sub-system without deteriorating the performance of the system.
- 3.4 The system hardware/software shall not pose any problem due to change in date and time caused by events such as changeover of millennium/century, leap year etc. in the normal functioning of the system.
- 3.5 The equipment and cable shall withstand all the vibrations imparted to the building and adjacent sites during any type of vehicle/train movements, nearby construction works, air conditioning/fan operation, DG set running etc.
- 3.6 To meet the overall requirement of the tender, the system shall be provided /equipped with all OEM supplied/reputed-make cables, connectors, hardware keys, hardware plug-ins, etc.
- 3.7 The equipment shall be compact and in composite construction and light weight. However, the mechanical design and construction of each card/unit shall be inherently robust and rigid under all conditions of operation, adjustment, replacement and storage. The actual dimensions and weight of the equipment shall be furnished by the manufacturer.
- 3.8 All equipments shall be immune to EMI and RFI interferences, generated by any nearby source and shall meet the latest international standards in this regard.
- 3.9 The equipments shall be capable of functioning with minimum maintenance and shall be preferred to have no requirement of any preventive maintenance.
- 3.10 All PCBs used shall be glass epoxy type and shall not chip owing to repeated soldering/ desoldering. The PCBs shall not warp on any account.
- 3.11 All wiring-including field interconnection wiring shall be cabled and clamped to the chassis. The wiring shall follow standard color-code. All cables shall be provided with connectors matching to the cable used and shall have identification markings.
- 3.12 All connectors shall be reliable and of standard type to ensure failure free operation over long periods and under specified environmental conditions. All connectors and the cable used shall be of low loss type and suitably shielded.
- 3.13 Vendor to specify the total power requirement of the offered Telecom equipments for each site.



- 3.14 The equipment construction should be such that it does not allow ingress or entry of rodents, insects, lizards and dust. For this, equipment should be suitably sealed from all sides, top and bottom.
- 3.15 All equipment sub-racks, housings shall be provided with antistatic wristbands.
- 3.16 The sub-rack and Equipment shall have a terminal for its grounding / earthing.
- 3.17 The configuration of the system should be easily expandable by adding plug-in-units and modifying software settings.
- 3.18 The plug-in units shall be suitable type to allow their removal/insertion while the equipment is in energized condition.
- 3.19 All sub-assemblies, switches and the control circuit components of modules shall be so mounted as to permit their replacement without appreciable disturbance to other adjacent modules. All switches/controls on front panel shall have suitable safeguards against accidental operations.
- 3.20 The removal or insertion of plug-in-units must not affect the existing traffic on other units.
- 3.21 Each sub-assembly, controls, switches, indicators etc shall be clearly marked with schematic reference to show their functions, so that it is identifiable from the layout diagram in the handbook.
- 3.22 Provision shall be made by means of mechanical and electrical interlocks and safety covers etc., so that operating and maintenance personnel are not exposed to harmful radiation and cannot come into accidental contact with dangerous voltages.
- 3.23 Safety covers shall be fitted over terminals to which dangerous voltages are applied. The words e.g., Danger, High Voltage etc., shall be suitably printed or engraved on the cover.
- 3.24 Each terminal block and individual tags shall be numbered suitably with clear identification code and shall correspond to the associated wiring drawings.
- 3.25 The equipment shall be protected from damage due to a faulty condition or the operations of controls in the wrong sequence, by the provisions of fuses / circuit breakers, interlock circuits and similar safety devices. Fuses shall be mounted in an accessible position clearly labelled regarding their capacity and circuit position and shall be easily replaceable. Protection and isolation against transient voltages through power supply or any other higher voltages / current shall be provided.
- 3.26 The equipment shall have easy access for servicing and maintenance.
- 3.27 The supplied equipment shall meet the latest national and international safety and emissions standards.

#### **4.0 GENERAL GUIDELINES:**

- 4.1 In general, specifications provided throughout this document shall apply. In case of conflict more stringent specifications shall override specifications given elsewhere and decision of the Engineer In charge in all such cases shall be final.
- 4.2 As and when bugs found/determined in the software/firmware affecting the performance of the equipment, the vendor will provide free of cost the patches/firmware replacement or solution to resolve the problem. Modified



documentation (hard copies and soft copies) pertaining to supplied items wherever applicable shall also be supplied free of cost.

- 4.3 Engineer-In-Charge reserves the right to modify the system requirements till such time the system is ready for final acceptance. Vendor shall undertake to meet the revised requirements without any financial implication to the Owner provided no additional equipments are required.
- 4.4 In case at the time of implementation there is any change in the system design & configuration to meet the owner's operational requirements, the vendor shall undertake all the activities such as design, manufacture, supply, Installation, etc. of additional equipment hardware and software for which additional financial implication, if any, shall be approved by the owner on the basis of sufficient details and justifications being provided by the vendor.
- 4.5 If during the course of execution of the work any discrepancy or inconsistency, error or omission in any of the provisions of the contract is discovered, the same shall be referred to the Engineer In charge who shall give his decision in the matter and issue instruction directing the manner in which the work is to be carried out. The decision of the Engineer In charge shall be final and conclusive and the Vendor shall carry out the work in accordance thereof.

## **5.0 OTHER CONDITIONS OF SCOPE OF SUPPLY**

- 5.1 Bidder must state categorically whether or not their offer meets all the technical and job specifications. Bidder shall furnish a complete list of deviations from Material Requisition in the prescribed deviation format, if any. Otherwise it will be assumed that there is no deviation from this Material Requisition and no further deviation will be accepted.
- 5.2 Bidder shall note that any utility not mentioned but required during detail engineering shall be in his scope only.
- 5.3 Bidder should provide certificates from the manufacturer to that effect.
- 5.4 Bidder shall ensure that the CCTV system and associated items of the system shall not be damaged due to black out or brown out.
- 5.5 Bidder shall provide the start up and shutdown procedure of the complete CCTV system. Bidder shall provide separate cable entries for power supply and signal cables for CCTV system and its accessories.
- 5.6 All the camera functions, commands and monitoring shall be available from the Maintenance Base, as well as from monitor end.
- 5.7 All materials used for packing wrapping, sealers, moisture resistant barriers and corrosion resistances shall be of recognized brand and shall confirm to the best standards. The package shall be suitable for storing in tropical climate.
- 5.8 Erection hardware shall be supplied in accordance with the tentative length/distance and as per the requirement on ground.
- 5.9 Bidder should assess the actual work properly during pre bid meeting, to be held at site prior to submission of the bid document. Any change /deviation at latter stage are not acceptable.
- 5.10 In case of conflict among the documents covering these MR, owner shall be advised by the bidder and bidder shall obtain owners written consent before proceeding further at all stages of contract starting from bid submission to end of contract.



- 5.11 Vendor's quotation, catalogues, drawings, datasheets and operation /maintenance manuals shall be in English language.
- 5.12 Standards: All designs, materials, manufacturing techniques and workmanship shall be in accordance with the highest accepted international standards for this type of equipment. The tenderer shall also state, where applicable, the National or other International standard(s) to which the whole, or any specific part, of the equipment or system complies.
- 5.13 The detailed technical specification submitted by the authorized system integrated shall be verified and vetted by the manufacturer in the form of letter/certificate.

## **6.0 TECHNICAL SPECIFICATIONS: CCTV SURVEILLANCE SYSTEM**

- 6.1 The CCTV surveillance system (hereafter interchangeably termed as 'System' also) is required to ensure effective surveillance of our mentioned locations. The System shall provide an online display of videos on LED monitors located in our respective stations.
- 6.2 The System should facilitate viewing of live and recorded images and controlling of all cameras by the authorized users present in the LAN.
- 6.3 The System should provide inter-operability of hardware, OS, software, networking, printing, database connectivity, reporting, and communication protocols.
- 6.4 The System shall use video signals from various types of indoor/outdoor color CCTV cameras installed at different locations, process them for viewing on workstations and simultaneously record all the cameras after compression using H.264 or better standard. No frames should be lost in recording. Joystick or Mouse-Keyboard controllers shall be used for Pan, Tilt, Zoom, and other functions of desired cameras.
- 6.5 The NVR / CAMERA SERVER shall be a standard manufacture server on which all the software like: Application software, Video Management software, Video Recording Software, Video Analytics Software, etc. shall be installed and operate.
- 6.6 The NVR shall offer both video stream management and video stream storage management. Recording frame rate & resolution in respect of individual channel shall be programmable.
- 6.7 The System should ensure that once recorded, the video cannot be altered; ensuring the audit trail is intact for evidential purposes.



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## **SECTION – 7**

# **SPECIAL CONDITIONS OF CONTRACT (SCC)**



**SPECIAL CONDITIONS OF CONTRACT (SCC)**

**1.0 GENERAL**

- 1.1 Special Conditions of Contract shall be read in Conjunction with the General Conditions of Contract, Specification of work, Drawing and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read within the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall be the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specification that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his cost and the Value of Contract shall be deemed to have include cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standard, the Job Specifications contained herein and Codes referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specification, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence:
  1. Letter of Acceptance/ LOI along with Statement of Agreed Variations.
  2. Schedule of Rates as enclosures to Letter of Acceptance
  3. Special Conditions of Contract
  4. Drawings
  5. Technical/ Material Specifications
  6. Instruction to Bidder
  7. General Conditions of Contract
  8. Indian Standards
  9. Other applicable standards
- 1.7 It will be the Contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.
- 1.8 In the absence of any Specifications covering any material, design of work(s) the same shall be performed/ supplies/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.



- 1.9 The following articles shall supplement the Instructions to Bidders and General conditions of Contract. Where any portion of the General Conditions of Contract and Instructions to Bidders is repugnant to or at variance with any provisions of the Special Conditions of Contract, then unless a different intention appears, the provision (s) of the Special Conditions of Contract shall be deemed to override the provision (s) of General Conditions of Contract and Instructions to bidders, only to the extent that such repugnancies of variations in the Special Conditions of Contract as are not possible of being reconciled with the provisions of General Condition of Contract and Instructions to Bidders.
- 1.10 The tenderer / contractor must visit the location which is mentioned in scope of work to ascertain the type and nature of work before quoting the rates. It is understood that the tenderer /contractor has satisfied himself of the information and knowledge required before bidding and as quoted rates shall remain firm during the currency of the contract.
- 1.11 The quoted rates shall include all costs transportation of material to and from the premises as and when required. Nothing extra is payable on this account. Transportation of any wastage, exchange of rejected or defective material, surplus material etc. shall have to be arranged by the tenderer/contractor at his own risk and costs. Also any material brought inside or taken out of the premises shall have necessary prior permission to do so.
- 1.12 The rates shall also be deemed to cover working under any adverse conditions that may be required at the convenience of the occupants and under the supervision of the contractor. The rates shall also be deemed to include cost towards all essential/contingent works, tools and tackles and any other material that may have to be taken up for the effective completion of this contract.

## **2.0 CONTRACTOR'S VENDOR'S RESPONSIBILITY**

- 2.1 The contract shall be carried out in workmen like manner and the workers will abide by all BGL rules and norms while inside the premises. They shall also restrict movement to their place of work only. They shall maintain their work activities with due regard to the convenience of the occupants at all times, along with the various statutes that need to be observed while working within public buildings. The workmen shall work in close co-ordination of any other agencies working at site. This shall be adhered to at no extra cost.
- 2.2 The tenderer/contractor shall be responsible for any injury caused to persons, animals or things (fittings/fixtures/furnishings etc.) any damage caused to any property of BGL etc. which may arise from the operations or neglect of any person of the tenderer/contractors team or any person engaged by him for any purpose related to the execution of this contract. This clause shall include inter alia, any damaged to buildings, roads, streets, footpaths etc. adjacent to or otherwise to the premises. The tenderer/contractor shall indemnify BGL of all liabilities arising out of his operations in any way under any acts of the Government and also in award of any compensation or





damaged consequent upon any claim arising out of the above. The tenderer/contractor shall further make good all damaged caused thus either to BGL or any third party.

- 2.3 In the event of any accident occurring during the course of work, which may result in any injury to person, the responsibility of their medical treatment will fully rest with the tenderer/contractor and expenditure incurred thereon will be borne entirely by the tenderer/contractor. BGL shall be totally indemnified of any liability whatsoever.
- 2.4 The contractor/agency will be solely and fully responsible for any consequences and claim(s) under the law arising out of any accident caused by their personals to the equipment/property/personnel of BGL or its authorised occupants. He shall also be responsible for any claim/injuries sustained by any third party (ies) including its own life/injuries/property etc.
- 2.5 The Contractor shall carry out work / deploy manpower for providing goods / services only after their character and antecedents are verified.
- 2.6 The bidder should submit the copy of PAN Card in the name of Company.

### **3.0 SCOPE OF WORK:**

The Scope of Work shall include but not limited to items mentioned in scope of work attached separately in tender ,SOR, instruction & direction of Engineer In charge.

Any other work, though not specifically detailed out in this document, but needed for effective completion of job shall also be deemed to be included in the scope of the Bidder. The various items to be operated have been dealt in schedule of rates (SOR) attached with tender documents. The rates should include supply of all materials, man power, equipments, consumables, taxes, duties, royalties, profits and overheads required for the job as per specifications and BOQ unless specified otherwise.

The work comprises Supply, installation, testing and commissioning of CCTV system and completion of Work as per design, specifications & BOQ mentioned in the Contract or other connected/ relevant documents and its maintenance thereof and except in so far as the contract otherwise provides, the provision of all labour, materials, construction plant of temporary or permanent nature, works and everything whether of a temporary or permanent nature, required in and for such work, completion and maintenance so far as the necessity for providing the same is specified in or reasonably to be inferred from the Contract. Maintenance thereof means rectification of defects observed during the defects liability period of one year from the date as recorded in the completion certificate.

The Scope of Work include supply, receiving, storage, shifting to site, installation, testing and Commissioning of CCTV system and all other allied works as per design, specifications and schedule of quantities mentioned in the Contract or other connected/ relevant documents thereof. Except in so far as the Contract otherwise provides, the provision of all labour, materials, construction plant of temporary or permanent nature, works and everything whether of a temporary or permanent nature, required for such construction and completion and maintenance so far as the necessity for providing the same is specified in or reasonably to be inferred from the Contract. Maintenance





thereof means rectification of defects observed during the defects liability period of one year from the date as recorded in the completion certificate.

#### **4.0 TAXES & DUTIES:**

The quoted price shall be deemed to be inclusive of all taxes/duties including works contract tax, sales tax/VAT, service tax, local taxes, import duty, excise duty, octroi, and other levies, etc. Till the complete execution of the order as applicable in India under this Contract the bidder shall not be eligible for any compensation on this account except for statutory variation only to the extent as mentioned in ITB.

#### **5.0 PAYMENT TERMS:**

##### **5.1 Payment terms for Supply of materials and Installation Work:**

- a) 70% of Supply value for each item of SOR on pro rata basis for the quantity supplied on receipt of material at site.
- b) 30% of Supply value for each item of SOR shall be released within 30 days after installation, commissioning & site acceptance testing (After adjusting for PRS, if any )
- c) 100% For installation, Testing, Commissioning, Cable laying and all restoration work shall be released after completion of work in all respects.

##### **5.2 ESCALATION:**

The quoted price will be inclusive of cost of all materials, labour, tools, tackles, scaffolding etc required for the proper completion of jobs, all types of taxes and also duties imposed by state/central/ local Government from time to time unless specified otherwise. The rates quoted shall be firm throughout the currency of the contract and are not subject to escalation due to any reasons whatsoever. No escalation is payable under this contract.

##### **5.3 MOBILISATION ADVANCE:**

No payment for mobilization advance shall be made in this contract.

- 5.4 All other payment shall be released within 30 days after receipt of relevant documents complete in all respects.
- 5.5 Unless otherwise specifically stated in bid document, all payments shall be made in the currency quoted.
- 5.6 No interest charges for delay in payments, if any, shall be payable by Owner.
- 5.7 No Claim Certificate: The contractor shall submit final bill along with No Demand/ No Claim Certificate as per the proforma provided in the bidding document. The final bill shall be processed No demand/No Claim certificate, otherwise final bill will be paid only after one year of submission of the same, as per BGL records.  
Final payment shall not be released unless the required documents like user manual, test certificates, softwares if any are received by BGL

EIC decision is final in requirement of documents that to be submitted by contractor.



#### **6.0 AWARD OF CONTRACT:**

Total Job shall be awarded to a single techno-commercially acceptable bidder whose prices are evaluated as the overall lowest as per evaluation methodology specified in IFB. No division of Work shall be done.

#### **7.0 DELIVERY PERIOD / DURATION OF CONTRACT:**

Total period of contract for this work shall be as under, to be reckoned from the date of Work order.

All CCTV systems, associated items & facilities at the BGL mother station in Shameerpet, DBS in Saroor nagar at Hyderabad, Mother station in Vijayawada and Mother station in Kakinada location shall be handed over to BGL after their successful design/engineering, supply, site installation, testing, SAT (Site Acceptance Test) and Commissioning within three (03) months from the date of Work order.

#### **8.0 PRICE REDUCTION SCHEDULE:**

8.1 Time is the essence of this CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 of GCC or due to EMPLOYER's defaults, the Total Contract Price shall be reduced by ½ % of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5% of **the Total Contract Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.**

8.2 The decision of the ENGINEER-IN-CHARGE in regard to applicability of Price Reduction Schedule shall be final and binding on the CONTRACTOR.

#### **9.0 WARRANTY/DEFECT LIABILITY PERIOD:**

All manufacturers' warranties & guaranties for the equipments supplied by the contractor shall be passed on the owner.

The CCTV System & associated items shall have warranty for a period of twelve months (12) months from the date of handing over to the Owner on after successful installation, testing & commissioning, site acceptance test and test/trial run as per warranty procedure mentioned in Scope of Work of Tender document. If during this period any defect occurs, the same shall be made good by the contractor at his own cost. Failure to comply with this requirement may result in the forfeiture of security deposit.

#### **10.0 CONTRACT PERFORMANCE SECURITY:**

The successful tenderer / Contractor shall submit a Bank Guarantee/DD from a nationalized bank for a sum equal to 10% (ten percent) of the accepted value of the tender for installation of CCTV system or which may deducted from RA bill. The security/PBG which will be refunded within three months after completion of DLP Period from the date of completion of work.



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**11.0 TERMINATION OF CONTRACT**

BGL reserves the right to terminate the Contract. Engineer-in-Charge shall in such an even give fifteen days (15) notice in writing to the Contractor of his decisions to do so Contractor upon receipt of such termination. Contractor shall be paid for the actual time performed till the date specified in the Notice. Clause may be read in conjunction with clause No. 29.0 of GCC.

**12.0 ALTERATIONS, ADDITIONS, OMISSIONS AND DELETION OF WORK:**

The EIC can make a variation of the form, quality or quantity of the works or any part there-of that may in his opinion, be necessary and for that purpose or if for any other reasons it shall, in his opinion be desirable he shall have power to undertake in writing to the contractor to do and the contractor shall do any of the following:

- a) Increase or decrease in quantity of any work included in contract.
- b) Omit any such work.
- c) Change the levels, lines, position and dimension of any part of the works.
- d) Execute additional work of any kind necessary for completion of works & no such variation shall in any way vitiate or invalidate the contract. But the value, if any of all such variation, shall be taken into account in ascertaining the amount of the contract price.

If during the execution of work it is decided to omit/ delete any or part of items wholly or partly change the specifications or both the financial implication shall be worked out by the contractor as per stipulations in the tender document elsewhere & to be approved by BGL.

**13.0 EFFECTIVE DATE OF CONTRACT**

The effective date of start of contract shall be reckoned from the date of issue of Work order.

**14.0 SPECIAL NOTE TO TENDERERS**

While quoting the rates in the tender by the tenderer they should consider all the provisions of the tender including statutory requirement prevailing during the course of the contract.

The special conditions of contract supersede the relevant clauses of General Conditions of Contract.



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## **SECTION – 10**

# **SERVICE REQUISITION**



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<b>Service Requisition</b>		
<b>S.No</b>	<b>Type of camera</b>	<b>Quantity(Nos.)</b>
<b>Location: Mother Station, Shamirpet, Hyderabad</b>		
1	Dome type with 20 Mtr distance	2
2	Bullet type with 20 mtr distance	3
3	Bullet type with 30 mtr distance	5
4	Bullet type with 50 mtr distance	2
<b>Location: COCO station, SaroorNagar, Hyderabad</b>		
1	Dome type with 20 Mtr distance	1
2	Bullet type with 20 mtr distance	1
3	Bullet type with 30 mtr distance	4
<b>Location: Mother Station,Vijayawada</b>		
1	Dome type with 20 Mtr distance	6
2	Bullet type with 30 mtr distance	9
<b>Location: Mother Station,kakinada</b>		
1	Dome type with 20 Mtr distance	2
2	Bullet type with 30 mtr distance	8



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## **SECTION – 11**

### **SCHEDULE OF RATES**



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**SCHEDULE OF RATES (SOR)**

S.No	Description	UOM	Quantity (A)	Unit price inclusive of all taxes except VAT, Rs. (B)	Total price inclusive of all taxes and duties except VAT. Rs. C =(A x B)
<b>Location : Hyderabad (BGL Mother Station, Shameerpet)</b>					
	<b>Supply of materials</b>				
1	Colour camera -Dome type with 1.3 MP Sony Super HADII,20 Mtr IR Distance,0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens)	Nos.	2		
2	Colour camera,700 TVL Bullet with 1.3 MP Sony Super HADII,20 Mtr IR Distance,0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens)	Nos.	3		
3	Colour camera-700 TVL Bullet with 1.3 MP Sony Super HADII,30 Mtr IR Distance,0 lux@F1.2(IR ON),(6 MM Lens/F2.2 Lens)	Nos.	5		
4	Colour camera-700 TVL Bullet with 1.3 MP Sony Super HADII,50 Mtr IR Distance,0 lux@F1.2(IR ON),(8 MM Lens/F2.2 Lens)	Nos.	2		
5	16 Ch-video & 1 Ch-Audio,3g Supported,CIF Real time recording,HDMI/VGA/TV simultaneous video Output,Support 1 SATA HDD upto 4 TB,CIF(1~25/30fps)	Nos.	1		
6	22" LED Monitor	Nos.	1		
7	2 TB Hard drive for back up in HD format	Nos.	1		
8	Network Rack with cooling fan	Nos.	1		
9	Power supply Adaptor(Suitable)	Nos.	1		



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10	(3+1) Industrial Cables with Accessories	Mtrs	1000		
11	1" PVC casing for cables	Mtrs	500		
12	Wall Mount Stands	Nos.	4		
	<b>Installation and commissioning charges</b>				
1	Installation, Testing and Commissioning of the CCTV system including materials required for installation like wall mount stands etc	LS	1		
2	Cable laying charges(300 MM depth x 100 MM wide)	RM	1000		
3	All civil works including excavation for cable laying,breaking of RCC,Paver blocks,backfilling and all the restoration works	RM	500		

**Location : Hyderabad(BGL COCO daughter booster station,Saroornagar)**

<b>Suply of materials</b>					
1	Colour camera -Dome type with 1.3 MP Sony Super HADII,20 Mtr IR Distance,0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens)	Nos.	1		
2	Colour camera,700 TVL Bullet with 1.3 MP Sony Super HADII,20 Mtr IR Distance,0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens)	Nos.	1		
3	Colour camera-700 TVL Bullet with 1.3 MP Sony Super HADII,30 Mtr IR Distance,0 lux@F1.2(IR ON),(6 MM Lens/F2.2 Lens)	Nos.	4		
4	8 Ch-video & 1 Ch-Audio,3g Supported,CIF Real time recording,HDMI/VGA/TV simultaneous video Output,Support 1 SATA HDD upto 4 TB,CIF(1~25/30fps)	Nos.	1		
5	22" LED TV	Nos.	1		
6	2 TB Hard drive for back up in HD format	Nos.	1		
7	Network Rack with cooling fan	Nos.	1		





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8	Power supply Adaptor(Suitable)	Nos.	1		
9	(3+1) Industrial Cables with Accessories	Mtrs	500		
10	1" PVC casing for cables	Mtrs	200		
<b>Installation and commissioning charges</b>					
1	Installation, Testing and Commissioning of the CCTV system including materials required for installation like wall mount stands etc	LS	1		
2	Cable laying charges(300 MM depth x 100 MM wide)	RM	500		
3	All civil works including excavation for cable laying,breaking of RCC,Paver blocks,backfilling and all the restoration works	RM	200		

**Location : Vijayawada(BGL Mother Station, Vidhyadharapuram)**

<b>Suply of materials</b>					
1	Colour camera -Dome type with 1.3 MP Sony Super HADII,20 Mtr IR Distance,0 lux@F1.2(IR ON),(3.6 MM Lens/F2.2 Lens)	Nos.	6		
2	Colour camera-700 TVL Bullet with 1.3 MP Sony Super HADII,30 Mtr IR Distance,0 lux@F1.2(IR ON),(6 MM Lens/F2.2 Lens)	Nos.	9		
3	16 Ch-video & 1 Ch-Audio,3g Supported,CIF Real time recording,HDMI/VGA/TV simultaneous video Output,Support 1 SATA HDD upto 4 TB,CIF(1~25/30fps)	Nos.	1		
4	22" LED TV	Nos.	1		
5	2 TB Hard drive for back up in HD format	Nos.	1		
6	Network Rack with cooling fan	Nos.	1		
7	Power supply Adaptor(Suitable)	Nos.	1		
8	(3+1) Industrial Cables with Accessories	Mtrs	1200		
9	1" PVC casing for cables	Mtrs	700		



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10	Wall Mount Stands	Nos.	3		
	<b>Installation and commissioning charges</b>				
1	Installation, Testing and Commissioning of the CCTV system including materials required for installation	LS	1		
2	Cable laying charges(300 MM depth x 100 MM wide)	RM	1200		
3	All civil works including excavation for cable laying, breaking of RCC, Paver blocks, backfilling and all the restoration works	RM	700		
<b>Location : Kakinada(BGL Mother station, Kakinada)</b>					
	<b>Suply of materials</b>				
1	Colour camera -Dome type with 1.3 MP Sony Super HADII, 20 Mtr IR Distance, 0 lux @ F1.2 (IR ON), (3.6 MM Lens/F2.2 Lens)	Nos.	2		
2	Colour camera-700 TVL Bullet with 1.3 MP Sony Super HADII, 30 Mtr IR Distance, 0 lux @ F1.2 (IR ON), (6 MM Lens/F2.2 Lens)	Nos.	8		
3	16 Ch-video & 1 Ch-Audio, 3g Supported, CIF Real time recording, HDMI/VGA/TV simultaneous video Output, Support 1 SATA HDD upto 4 TB, CIF(1~25/30fps)	Nos.	1		
4	22" LED TV	Nos.	1		
5	2 TB Hard drive for back up in HD format	Nos.	1		
6	Network Rack with cooling fan	Nos.	1		
7	Power supply Adaptor(Suitable)	Nos.	1		
8	1" PVC casing for cables	Mtrs	500		



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9	(3+1) Industrial Cables with Accessories	Mtrs	1000		
10	Camera housing	Nos.	8		
11	Wall Mount Stands	Nos.	2		
	<b>Installation and commissioning charges</b>				
1	Installation, Testing and Commissioning of the CCTV system including materials required for installation	LS	1		
2	Cable laying charges(300 MM depth x 100 MM wide)	RM	1000		
3	All civil works including excavation for cable laying,breaking of RCC,Paver blocks,backfilling and all the restoration works	RM	500		
<b>Total cost of services for supply, installation testing and commissioning of CCTV system (Rs.)</b>					
<b>VAT @ ___ (Rs.)</b>					
<b>Grand Total of services for supply, installation testing and commissioning of CCTV system (Inclusive of all taxes and duties) (Rs.)</b>					