

Ref: Tender No. BGL/570/2022-23, dated 11.04.2023

Sub: Hiring Patrolling Services for Steel & MDPE Pipeline in BGL authorized GAs

CORRIGENDUM-2
&
REPLIES TO PRE-BID QUERIES

S. No	Vol & Section	Page No.	Clause / Description	Bidder Queries	BGL Remarks / Clarifications
Technical Queries					
1.	Vol II of II, Section-7, Scope of Work	6 of 32	Cl. no: 1.11:- While covering allocated pipe network section of approx. 50 kms, MPM will have to take first patrolling of 50 kms on motorcycle at a faster rate to observe any third-party job being planned/ starting of job or being carried out on the pipe route and will report to BGL engineer/ EIC/ representative. If any activity is observed. After completing his first 50 kms of quick patrolling, MPM will report to BGL engineer/ EIC/ representative and will start his return doing in-depth patrolling of his allocated 50 kms of pipeline network for BGL assets as mention at 1.13 below. With this, each MPM will cover approx.. 100 kms of pipe length each day. MPM will cover the given distance in given time and leave the patrolling beat after attaining both the criteria, handing over the devices to the concerned person at Local Control Room.	We have done patrolling at BGL Hyderabad, Vijayawada and Kakinada. At present each patrol man is covering a distance of 50 km. As per SOR of the tender document, we are required to cover 50 km per patrolman, which is the norm. However, in the amplifying instructions, it is given as 50 one way, which is difficult for a patrolman to cover and do justice to the job specification.	Please refer to Section-7 – Revised Scope of Work & Special Conditions of Contract, Clause 1.11 of issued as Corrigendum-2–Annexure-AB

ANNEXURE-AB

SCOPE OF WORK

&

SPECIAL CONDITIONS OF CONTRACT



Bhagyanagar Gas Ltd.
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**Hiring Patrolling Services for Steel & MDPE Pipeline in
BGL authorized GAS**

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SECTION – 7
SCOPE OF WORK(SOW)



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Hiring Patrolling Services for Steel & MDPE Pipeline in BGL authorized GAs

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SCOPE OF WORK

Following are the scope of work for providing the services of Motorcycle Patrol Men (MPM) with Motorcycle and Android Device, providing patrolling services and providing the services for GPS tracking system, data management at contractor provided cloud server, web hosting services & preparation of dashboards:

1. Scope of work for PART-01

(A) PROVIDING SERVICES OF MOTORCYCLE PATROL MEN WITH MOTORCYCLE AND ANDROID DEVICES FOR MONITORING OF MOTORCYCLE PATROL MEN THROUGH GPS SYSTEM

- 1.1 The contractor has to render the services on Pipeline and it's installations in BGL Hyderabad, Vijayawada and Kakinada Geographical Areas.
- 1.2 The Geographical Areas mainly consists of pipeline network (Steel & MDPE), from City Gate Station (CGS) to DRS and from DRS to MRS, Sectionalizing Valve Station / Valve Chambers, Tap Off and associated equipment & installations under 03 GAs located at Hyderabad, Vijayawada, and Kakinada. The indicative details of the assets being operated by the various GA's along with the Scope of Work are as given below:


Sr. No.	GA's	CNG Station (Nos.)	MDPE Pipeline (Km.)	Steel Pipeline (Km.)	SV Station	DRS	CPNG customer	IPNG customer	DPNG customers
1.	Hyderabad	77	535	59.01	7	7	104	62	10,219
2.	Vijayawada	28	471	44.94	13	5	76	1	7,802
3.	Kakinada	13	834	42	17	5	169	3	23,631
Total		118	1,840	145.95	37	17	347	66	41,652

The scope of work covers patrolling of all the existing and future steel pipelines and MDPE Pipeline laid/ to be laid in respective sites/locations of BGL and will encompass the steel pipeline laid from the City Gate Station /Tap-offs to various Charge area within the city up to DRS as well as the MDPE Pipeline laid from various DRS to the end users/ customers. This includes the associated facilities required for transportation of natural gas through CGD pipeline network such as valves, terminals, DRS, PRS, MRS etc. The activities shall but not limited to broadly cover the following activities-

1.3 Generally, a typical BGL Natural Gas pipeline will have following features: -


- a) The pipeline is buried under earth at a depth of 1 Meter to 5.0 Meters depending upon the life of the pipeline and development in that area / type of laying process.
- b) Pipeline Warning markers, Direction Markers, KM Markers, Aerial Markers, Stone Markers and Boundary Markers are placed above ground on and near the pipeline.
- c) Natural Gas Pipeline distribution or local natural gas network which is going through densely populated areas along side of roads after getting permission from the local Authorities.

- 1.4 All hydrocarbon pipelines shall be patrolled by MPM to identify/locate any encroachment/ unauthorized construction activity/ exposed pipeline due to soil erosion/ wash out/ gas leakage, unauthorized Digging/Drilling/Boring/HDD etc. which may lead to disasters and disruption of supply.
- 1.5 The Motorcycle Patrolling of Natural Gas shall be carried out as per frequency allocated to each section which has been worked out based on threat perception, vulnerability, population density, water bodies, rapid urbanization, construction works, product flowing in pipeline etc. as per the directions of EIC.
- 1.6 The contractor shall engage contract workers who will be known as Motorcycle Patrol Man (MPM) and shall carry out patrolling of pipeline section(s) of given distance in given period of time as well as frequency of the NATURAL GAS PIPELINES NETWORK OF BGL in Hyderabad, Vijayawada and Kakinada Geographical Areas.
- 1.7 The jobs are to be carried out as per Standard Operating Procedures laid down by BGL and as per instructions of Station-In-Charge/Engineer-In-Charge. The patrolling of the pipe line shall be done length wise. However, the patrolling of the pipeline for Domestic Gas Consumers shall be done area wise.
- 1.8 During the patrolling, the MPM should see for any leakage, third-party activities that are being taken up near the BGL Pipeline area, any encroachments on the pipeline, any activity which may be detrimental for Pipeline / any damaged / missing markers, any other unsafe activity & unsafe conditions etc. on the pipe line route. Also, the MPM shall visit the MRS (Metering and regulating stations) & DRS (District Regulating station) up to battery limit of BGL during the patrolling & check for any leakage in the same. In case of any leakage observed then the MPM shall immediately bring it to the notice of O&M in-charge/ station in-charge of the city . Also, the same shall be recorded in GPS tracking system, along with relevant photographs.
- 1.9 The pipelines to be monitored through motorcycle patrolling using GPS devices as per the frequency mentioned in the respective section of tender by engaging sufficient Resources to perform 8 hours of duty per MPM per day. The contractor shall take care of the reliever/ leave reserves etc. as per tender requirement. Job is to be carried out for all 365 days in a year irrespective of Holidays, Saturday, Sundays & Gazette Holidays.
- 1.10 MPM will carry out patrolling as per schedule provided by BGL which is to be prepared with consultation of EIC based on BGL requirement (Tentative schedule is mentioned in Annexure-1). Decision of EIC for the same shall be final and binding. One MPM will carry out patrolling of minimum 50 Km of network length per day (Approximately) of 08 hrs of duty.
- 1.11 While covering the allocated pipe network section of approx. 50 kms, MPM will have to take patrolling of 50 kms on motorcycle and carry out in-depth patrolling of his allocated 50 kms of pipeline network for BGL assets as mention at 1.13 below and will report to BGL engineer/ EIC/ representative/designated Offices. Also, if any activity/third-party job being planned/ starting of job or being carried out on the pipe route during the patrolling, MPM shall immediately report/inform to the BGL engineer/ EIC/ representative/designated Offices/BGL Control Room. MPM will have to cover the given distance in given time and leave the patrolling beat after attaining the criteria, handing over the devices to the concerned person at Local Control Room. However, EIC may increase or decrease distance depending on the topography of pipeline area.
- 1.12 MPM will first report to BGL engineer/ EIC/ representative/designated Offices/BGL Control Room and mark his attendance as per developed mechanism at the start of his job everyday and only after that, he will start the patrolling job carrying his GPS device. Mechanism for attendance is to be developed, so that it is to be marked at the start as well as end of his duty.
- 1.13 MPM should observe soil / ground surface condition on and adjacent to Pipeline / route area,

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indication of leak/ construction activity other than that undertaken by BGL, encroachment and any other factors affecting the safety and security of pipeline like Digging/Drilling/Boring/HDD etc. MPM will have to pay special attention to all Railway / Bridge / Road / River / Canal/Drain crossings. If any serious observation / abnormalities are observed which may be required to be reported immediately, then it shall be reported immediately over GPS device and through mobile phone to the BGL engineer/ representative stationed at the local Control Room (LCR) along with photograph.


- 1.14 Any de-coloration of vegetation on the pipeline route / near pipeline is to be reported to investigate possible leak through GPS tracking system and / or through telecommunication depending upon the severity.
- 1.15 MPM is required to ride his motorcycle along the pipeline route / as close as possible to the pipeline route and no deviation (from predetermined route in GPS tracking system) in any case will be allowed unless and otherwise the deviations are approved by the concerned MPM/ supervisor/ officer with the information/ permission of Officer-In-Charge/Engineer- In-Charge.
- 1.16 Each MPM shall keep their GPS always in charged & ON condition so as to record the tracking route & their movement in Control Room. Additional number of batteries / battery bank for Android device shall be made available by the contractor as back up to ensure all MPM patrol are with fully charged GPS/mobile phone devices.
- 1.17 MPM will participate in Emergency Disaster Management Plan (ERDMP) Drills / mockdrills as and when planned by BGL.
- 1.18 MPM shall look for any additional instructions from respective Local Control Room as may be required.
- 1.19 Motorcycle Patrolling has to be carried out as per the deployment and time schedule. Engineer- In-Charge/ Station-In-Charge will have the discretion to revise these timings as and when required.
- 1.20 MPM should report any damages to pipeline to respective BGL engineer/ EIC/ representative/designated Offices/BGL Control Room. Photograph of the damage shall be taken by the MPM and send the same to local control room through android device and to be logged in GPS tracking system through GPS devices.
- 1.21 MPM & Contractor should maintain good liaison with local civil authorities like police, fire station etc., villagers, local public, concerned government authorities etc. in their related areas. The contractor will be responsible for facilitating the appropriate procedure on BGL behalf, as and when required, in case of matters requiring the intervention of local police station.
- 1.22 In case, due to any reason the section is not covered in 8 hours, (including Lunch Break)MPM will have to complete the same even by extending duty hours and no additional compensation will be paid for it.
- 1.23 MPM shall be required to submit the report over android GPS device or in prescribed format to the local control room, who in turn shall submit the report section wise in the specified

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reports format to the EIC/ OIC /his authorized representative.

- 1.24 Deep rooted trees which are considered threat to the pipeline shall be reported to Local Control Room along with detailed information including photograph and also to be logged in the GPS tracking system.
- 1.25 MPM is not supposed to get intimidated / enter into any argument / dispute / quarrels/ threats with the farmers / land owners.
- 1.26 All vulnerable locations viz. river crossings, all cased Road / Railway / canal crossings, Encroachments, Excavation, Exposure, washout shall be checked with special care.
- 1.27 If any parameter / information, other than specified in the format is felt necessary to be observed / obtained during the Motorcycle patrolling then it shall be observed and reported along with the daily report without any extra charges to BGL.
- 1.28 MPM shall wear Uniform and all PPEs provided by the contractor whenever on duty. While driving, MPM shall ensure that he is wearing the helmet as per government guidelines.
- 1.29 The contractor shall ensure the physical fitness & healthiness of deployed MPMs and will have to submit the medical fitness certificate, issued by local medical authorities/ Govt. Hospital to respective SIC/EIC/BGL Executive before deploying him on the job.
- 1.30 The Contractor will have to check the credentials of MPM; provide their Police verification, ID proof (issued by GOI AADHAR / PAN/ PASSPORT) and Driving License before their deployment.
- 1.31 Contractor to provide Android Mobile GPS device to each MPM. It shall be the responsibility of the contractor to ensure that GPS device is not damaged intentionally by the MPM and are in working condition with all the features available at all the time. Contractor must keep sufficient spares for handling such situations.
- 1.32 The contractor will also provide water bottle, baton, safety jacket, safety torch and any other essential equipment for smooth and effective patrolling of CGD network. BGL shall not be liable for reimbursement of any such claim from the contractor.
- 1.33 All liability towards over time or extra payment for any person engaged for more than normal working hours shall be borne by the Contractor as per guidelines/relevant labour laws. The Engineer In-charge (EIC)/Officer In-Charge or his representative on his own accord can change the timings / spread over without assigning any reason.
- 1.34 The MPM on duty shall keep with them all important telephone numbers like nearest police station, nearest Fire Station, numbers of concerned Local Control Room, Station- In-Charge Number & Central Control Room Number, addresses so that they could be informed and contact in case of any emergency.

- 1.35 Above duties are illustrative and not exhaustive. Contract personnel may be asked to perform additional duties (related to patrolling services and are vital for pipeline security & safety, company requirement) not mentioned here in above.
- 1.36 The contract resource will log the shift patrolling observations in the GPS tracking system and inform to local control room incharge/ BGL EIC/ representative for any job like digging, JCB movement, HDD & any other abnormal activity nearby or on BGL Pipeline network. Contractor shall consolidate all the observations and will inform to the EIC/ OIC in the form of a report at the end of each shift. Any critical observation which require immediate action shall be informed to EIC/OIC on phone at the urgent basis.
- 1.36(a) Contractor has to submit the RC of motorcycles provided to each MPM to EIC/OIC within 30 days of start of job.
- 1.37 Indicative / Brief Procedure for Patrolling is as given below and the procedure mentioned below shall be followed by the MPMs/ patrolling teams during the daily patrolling (365 days a year) of pipe line network:
- To start with the patrolling of the steel/MDPE pipe line, there must be an originating point from where the MPM will start his patrolling & an ending point where the patrolling will be finished.
 - For the effective monitoring of the job the GPS instrument will be provided to all the MPM on duty by contractor before commencement of duty and hand over the same to designated person, after completion of patrolling duty. The contractor and BGL will continuously monitor the movement of the deployed MPMs in the respective areas through this system. The contractor to take proper care of such systems/equipment and follow the instruction given by EIC/OIC from time to time.
 - The MPM shall be given GPS tracking device to record the patrolling route & his observations. MPM shall also be given prescribed format along with a writing board & ball point pen which shall be used by him to note down the observations along the pipe line route during patrolling. The MPM should also carry water proof carry bag to keep the tracking device & patrolling format in the bag to protect the document from rain water during rainy season.
 - The MPM will start the patrolling in the designated route and carry out a quick patrolling for observing any apparent third party activity being started/ carried out, any major leak or any other undesired apparent observations. Also, MPM shall report to BGL engineer of the pipe network status and shall start thorough patrolling during the patrolling. MPM shall perform checks like Road/Nalah/Rail Crossing, Valve-Chamber, C P station/Warning, Excavation on Pipeline, Gas Leakage if any, condition of Markers etc., during the patrolling.
 - When the patrolling is finished by the MPM & arrive at the end point, the data / observations should be submitted to contractor and based on the same report shall be submitted to BGL .
 - In case of any observation is mentioned &/or narrated by the MPM, then the BGL engineer / representative must immediately rush to the site of the vulnerable location to confirm the third party activity. The vulnerable location format shall be filled by the MPM & shall be submitted to the O&M in-charge of the respective site. The filled-up format after site visit & review shall be submitted to BGL engineer.

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- g) The patrolling formats & vulnerable location formats duly filled & signed by the MPM & the Concerned Person (as per Direction of EIC/OIC) shall be handed over to the BGL representative of the respective site.
- i) MPM shall intimate for unauthorized work carried out along or across the BGL pipeline. Some works are very critical like HDD, excavation by JCB, Backhoe/excavator, which should be taken care very seriously. Such activities should be immediately brought to the notice of BGL.
- j) In case of emergency/Any suspicious/Abnormal activity, they will inform the same, to BGL Officials promptly.
- k) For each and every incident occurred, the MPM shall provide pictorial evidence of JCB / Excavator machine with its registration number by using camera in his mobile phone or GPS device.
- l) MPMs shall be able to operate the Valve (inside valve chambers), and it shall be the responsibility of MPMs to operate the valve chamber in case of any emergency.
- m) All MPM while doing patrolling along the pipeline should visit each and every SVs, DRS / MRS (upto battery limit of BGL) falling on that route. Details of duty and responsibility of individual patrolling guards shall be given on deployment. The pipeline MPM shall count all the pipeline route marker in the route and if any marker is found missing shall be reported to BGL designated representative.
- n) The upper age limit is 50 years for Motorcycle Patrol Man.
- o) MPM should be Minimum matriculate/SSC pass & shall have at least one years of working experience in any Natural Gas and oil industries. The patrolling services are to be provided on daily basis on each and every day of the year including Sundays, holidays etc. as per the instruction of EIC, on general or shift pattern as decided by EIC/ SIC.
- p) SERVICE PROVIDER shall provide water bottles, Fluorescent stripped jackets, safety torches, umbrellas, stick / Lathi / Baton etc. or any other safety equipment not mentioned herein however required for safe operations to each resource at his own cost.
- q) Boarding & lodging of the MPM shall be in the scope of service provider.
- r) MPM shall inform & create awareness at regular intervals about Do's & Don't to the nearby shopkeepers, dwellers, who are nearby to the pipeline networks.
- s) Based on the increase in pipeline length bidder has to increase / decrease the manpower to perform the patrolling.

4.0 PART-02 - Scope of Work : Providing Services of GPS Tracking System with all requisite Software & Application for Monitoring & Incident Reporting

Contractor's scope shall include (but not limited to) providing GPS based Personnel tracking devices and generating report through Web based application as per the following terms and conditions and scope of work/Technical specifications.

After installation and commissioning of the GPS system, contractor/ his representative will map the GPS tracking route on the map and will define the boundary limits for movement of MPMs. The contractor shall give Training to the EIC/Local Control Room Staff/Technical staff of BGL on the operation of the GPS system hardware and software. The contractor shall demonstrate all the functionalities mentioned in the Scope of Work and only upon acceptance by EIC, the GPS system shall be considered commissioned.

4.1 GPS TRACKING SYSTEM: Contractor has to provide GPS Tracking Software along with mobile APP. The details feature and specification is given in **Annexure -2** and also as per the direction of Engineer- In-Charge. During the course of the contract and on a single dashboard for monitoring the real time activities & for reporting of incidents / observations by the Motorcycle Patrol Men. Contractor has to provide & maintain the cloud services and all related software, licenses etc. for the complete duration of the contract. No other charges shall be payable except the SOR item for “Providing Services of GPS Tracking System with Software & Application for Monitoring & Incident Reporting”.

4.2 GPS Based Device: Contractor shall provide GPS enabled android device (Refer Technical Specification at **Annexure-3**) with SIM, GPRS rental, calling facility to each MPM. All the charges will be borne by the contractor and quoted rates in respective SOR shall be calculated accordingly. No additional reimbursement will be made towards expenditure on Mobile- Phone calls made in connection with motorcycle patrolling work undertaken and to keep in touch with the Local Control Room /Station-In- Charge/Engineer-In-Charge for the purpose of communication.

4.3 The GPS enabled Android Mobile devices shall be compatible with the MDM (Mobile Device Management) software provided by the contractor for tracking the devices.

4.4 The GPS Based device shall be able to take & send snaps/photos of sites with the co- ordinates to GPS tracking system and shall be able to register the observation of MPM on GPStracking system.

4.5 All hardware and software for GPS devices, web hoisting and maps with proper license required for completing the job should be provided by the contractor. Contractor shall ensure that he is having all the valid licenses for all the software (including GIS Maps etc.) in his name or in the name of agency it has engaged for executing the job. Contractor has to indemnify BGL against liability arising out of software usage.

4.6 History of at least 180 days should be available, which can be downloaded by BGL users in their PC. The contractor shall demonstrate the successful working of the system in totality to BGL's representative at site.

4.7 SIM required in the device with required DATA/SMS plan will be provided by contractor along with the device. SIM will be in the name of contractor which shall be taken back at the end of the contract along with GPS Devices. No separate charges shall be admissible for DATA / SMS plan.

4.8 The contractor will provide the GPS devices along with SIM. The charges towards SIM and Data/SMS plan shall be borne by the contractor. The

GPS enabled Android Mobile devices will be maintained by contractor during the contract period. The charges against repair and maintenance are to be included in the quoted rates.

4.9 In case any device mal-functions repeatedly, after 3 incidents of mal-functioning, the device must be replaced with new one.


5.0 QUALIFICATION AND EXPERIENCE OF MOTORCYCLE PATROLMAN(MPM)

5.1 The Contractor shall preferably engage personnel which includes detail of Max. age, educational qualification, desired skill, experience etc. as per **Annexure-A**.

6.0 TRAINING

6.1 Contractor as per guidelines shall make all provisions for training for the MPM with no additional cost to BGL

6.2 MPM will be deployed after imparting training in security or patrolling duties, first aid and fire-fighting

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by the contractor.

7.0 Obligation of BGL

7.1 BGL will provide the Natural Gas CGD pipeline network route coordinates to contractor's representatives, wherever available. Otherwise, it will be contractor's responsibility to create Pipeline route through GPS tracking system for the first time.

7.2 BGL will provide the details of various types of Markers like Warning markers, Direction Markers, KM Markers, Aerial Markers, Stone Markers and Boundary Markers installed as on date at Natural Gas CGD pipeline network. wherever available. Otherwise it will be contractor's responsibility to create Pipeline route through GPS tracking system for the first time.

7.3 Safety related training to all the MPM, in line of HSE guidelines followed in BGL.

8.0 UNIFORM & PPE FOR CONTRACT PERSONNEL

Refer **Annexure C** in regard of Uniform and PPE.



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ANNEXURE 1

TENTATIVE PATROLLING SCHEDULE

These requirements are based on consideration that each MPM in a single duty shall cover minimum 50 kms of the pipeline network . Further, this schedule is tentative. Actual schedule and deployment of manpower in either shifts pattern or in General shift shall be decided by the EIC/OIC, post award of contract.

HYDERABAD	
Services	Resources per day
Motorcycle Patrol Men (each covering at least 50 kms of CGD network)	10
VIJAYAWADA	
Services	Total per day
Motorcycle Patrol Men (each covering at least 50 kms of CGD network)	10
KAKINADA	
Services	Total per day
Motorcycle Patrol Men (each covering at least 50 kms of CGD network)	16



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ANNEXURE A

SPECIFIC REQUIREMENT FOR DIFFERENT CATEGORIES OF RESOURCES TO BE DEPLOYED

Sl No	Category of Security Personnel	Education Qualification	Age Bracket	Experience
1	Motorcycle Patrol Man	10th Pass	Max 50 Years	Similar experience of 1yr. in Natural Gas or Hydrocarbon Sector or CGD sector

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ANNEXURE C


The Specification of the Uniform for Service Providing Resources

Items	Specifications	Quantity
Shirt	Full sleeve, cotton	Two pair per person per year for all
Trouser	Cotton	Two pair per person per year for all
Belt with wooden batten/lathi	Black Web/Nylon	One per person per year for MPM
Shoes/socks	Black cotton	One pair of Shoe with Two pair of socks per person per year for all
BGL Company Logo of suitable size & design	On left sleeve / above left chest pocket	As per requirement for all
Raincoat/Umbrella	One each per MPM	Once per person in the contract period for all
Safety Torch	One each per MPM	Once per person in the contract period for all
Water Bottle	One each per MPM	Once per person in the contract period for all
Fluorescent Stripped Jackets	One each per MPM	Once per person in the contract period for all

Annexure -2 (GPS SERVER)

GPS TRACKING SYSTEM: Application Software Detailed Features and Specifications.

1. BGL representative sitting at local control room will track the Motorcycle Patrol Man on GPS Terminal at each LCR and coordinate for the pipeline issues. MPM will send him the complete report through provided android device per day.
2. BGL representative/ contractor representative get the Precise live location of MPMs on map, Auto-report of trip completed with duration
3. Geo Tagged address of patrol check points
4. Geo-tagged images & notes as verifiable proof
5. Auto time stamped geo-tagged attendance.
6. BGL should get standard reports, with MPM name and route name with MAP and location.
7. BGL should get the detail of android GPS device with battery status with over speeding and geo fence alerts. If any MPM steps out of a designated patrol perimeter, SMS Alerts are sent and the event is reported.
8. Ping time shall be 15 Second or better
9. Map accuracy 05 meters or better.
10. BGL / Contractor representative should get the information of all live android devices on screen, as per the accessibility / authorization.
11. SOS should be used by MPM in case of emergencies like fire, encroachment or theft.
12. Geo fence and Reports eliminate Manual attendance, Proxy Attendance & Discrepancies.
13. Vital Phone and App settings viewed by the BGL engineer like, GPS (ON / OFF), Phone network (ON / OFF), connectivity (ON / OFF), auto start (ON / OFF), App Network (ON/OFF), OS Version, App Version etc.
14. The entire patrol route is to be tracked on MAP with distance travelled & Speed of MPM
15. Android device should have tight integration with phone features like GPS, Camera, Texting, Memory, Battery Level, Google Maps, Data & Image Storage in GPRS blackout zones or Offline mode, Login Module available to allow sharing of mobile phones between staff.
16. Customized Forms. User-friendly interface. Web-based software integrated with Google Enterprise Maps. Solution should have Real time location data with historic Trail record, acts as a proof of visit, Alert configuration, Customized place marks for Patrol stations,
Geo fencing and related triggers, Create User Hierarchy and assign rights, In- depth analytical Reports

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Annexure -3

Application Features of GPS based Android Device:

- 1.0 Should capture GPS Location Coordinates at pre-set time interval.
- 2.0 Should send GPS Location coordinates to Server at pre-set time.
- 3.0 Should Capture photograph with location & Time Details.
- 4.0 Should Capture & fill Survey Forms in the device application with Location & Time.
- 5.0 Should be able to send details in case of distress message vide SOS Panic Button to predefined numbers.
- 6.0 Should store GPS Location and all other required Data (Minimum 1000 records) in No Internet Zone and Upload automatically when connectivity is back.
- 7.0 Should have option of capturing Network Location in addition to network location.
- 8.0 Stable App which works perfectly on all Android Versions.
- 9.0 Person should be able to login in the device with his details and at the time of handover the device to the new person first person should be able to log out.
- 10.0 Should have option that no other application shall run on this device except applications required for patrolling services and reporting of incidences.

Monitoring Portal Features:

- 1.0 Web based Portal which should run on all popular browsers
- 2.0 Should show list of Mobiles with details like Location, Last Update Time
 - 3.0 Should Show Movement Track on Google Licensed Map with facility to Play Pause & Replay Track
- 4.0 Should have facility to Add Geo Fence Polygonal & Route Type
- 5.0 SMS/Email Alert on Entry/Exit of Geo Fence
 - 6.0 Should generate Analytical Reports for seeing Historic Movement, Photos, Forms, Geo


GPS Tracking device and software

It should be an android based device : as per the below specification or better

- 1.0 Minimum 6 Inch Screen with Gorilla Glass
- 2.0 4 GB RAM
- 3.0 64 GB Memory
- 4.0 GPS/Glonass Satellite Reception with +/- 10Mtr Location Accuracy
- 5.0 8 Megapixel Camera
- 6.0 3G/4G Internet Connectivity
- 7.0 Minimum 5000 mAh Battery, with two Extra Battery bank min 5000mAh of reputed make
- 8.0 SIM card
- 9.0 GPRS RENTAL and VOICE


Bidder to provide MDM software to have the feature of remote management/ setting control /application control

Approved Make for Devices: Motorola / Samsung / LG / One Plus / or equivalent

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SECTION-8


SPECIAL CONDITIONS OF CONTRACT

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SPECIAL CONDITIONS OF CONTRACT

1.0 GENERAL

- 1.1** Special Conditions of Contract shall be read in Conjunction with the General conditions of Contract, specification of work, Drawings 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 with and into the Contract so far as it may be practicable to do so.
- 1.3** Where any portion of the General Condition 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 provisionsof the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.4** Wherever it is mentioned in the specifications 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 included cost of such performance and provisions, so mentioned.
- 1.5** The materials, design, and workmanship shall satisfy the relevant Indian Standards, 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** 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.
- 1.7** 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 and asper the instructions/ directions of the Engineer-in-Charge, which will be binding on the Contractor.
- 1.8** All the work specifically mentioned in the tender document is under the scope of the contractor. All other works not specifically mentioned but required for successfully executionof the work shall also be perform by the contractor and payment shall be paid as per the termsand conditions mentioned elsewhere in this document.
- 1.9** The bidder is advised to visit Bhagyanagar Gas limited CGD network at Hyderabad, Vijayawada and Kakinada GA's and examine the site of works and its surroundings. It is bidder's responsibility to obtain for himself on his own responsibility, all information that may be necessary for preparing of the bid and entering into contract and ascertain the type and nature of work before quoting the rates. The bidder. The cost of visiting the site shall be at bidder's own expenses.
- 1.10** The bidder or any of its personnel or agents will be granted permission by the Employer to enter upon its premises and land for the purpose of such visits, but only upon the express condition that the bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liabilities in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any loss, damage, costs, and expenses incurred as a result of the inspection..
- 1.11** The quoted rates shall include all costs of all required resources including Patrol Men, Motorcycle separately for each MPM, its maintenance, petrol charges, GPS devices, Tracking system, Contractor's Cloud server required, web hosting services, dashboard preparations, all required software & licenses etc. as and when required. Nothing extra is payable except as mentioned in

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1.12 The quoted rates shall also include all taxes & duties. 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.

1.13 For the execution of this Contract Agreement, Engineer-in-charge (EIC) would mean the person nominated by Bhagyanagar Gas Limited for this purpose or person(s) duly authorized by EIC.

2.0 ORDER OF PRECEDENCE

In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of contract, Specifications, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence:

- i) Letter of Acceptance along with Statement of Agreed Variations & its enclosures and any corrigendum/ addendum.
- ii) Fax/ Letter of Intent/ Fax of Acceptance.
- iii) Schedule of Rates as enclosures to Letter of Acceptance.
- iv) Special/ additional Conditions of Contract.
- v) Specifications, Special notes regarding specifications and Drawings, all three in conjunction with each other.
- vi) General Conditions of Contract.

3.0 BRIEF SCOPE


Following are the brief scope of work. For details pl. refer Scope of work.

- 3.1 Patrolling services:** The scope of work covers patrolling of all the existing and future steel pipeline and MDPE Pipeline laid/ to be laid in respective sites/locations of Bhagyanagar Gas Limited and will encompass the steel pipeline laid from the City Gate Station /Tap-offs to various Charge area within the city up to DRS as well as the MDPE Pipeline laid from various DRS to the end users/ customers i.e. upto MRS. This includes the associated facilities required for transportation of natural gas through CGD pipeline network such as valves, terminals, DRS, PRS, MRS etc. The services are to be provided on daily basis in shifts or General shift as per EIC instruction for all days including, Saturdays, Sundays, holidays/ festivals etc.
- 3.2** The contractor has to provide the services on round the clock basis and he shall coordinated with all the MPMs, Maintaining GPS tracking systems, Monitoring the movement of MPMs, collating their observations, preparing daily report in each shift & submitting to EIC or any other nominated person, responding to any emergent situation or critical observations of MPM and communicating the information to all concerned as per response matrix. Monitoring & maintaining the healthiness of all the systems, GPS devices etc.
- 3.3 GPS tracking Systems & web hosting/cloud Services etc.:** Providing android based GPS tracking systems along with charging systems to all the MPMs, O&M of all tracking devices, providing cloud services, web hosting of tracking system, development of dashboards for each location, purchase and renewal of all required licenses & software for maintaining the GPS Devices, GPS tracking systems & cloud services. Contractor has to submit archived data to BGL representative as per agreed formats & files.

4.0 EVALUATION AND COMPARISON OF BIDS

4.1 The offers shall be evaluated on site wise basis considering complete scope of work.


5.0 RESPONSIBILITIES OF THE CONTRACTOR AND COMPLIANCE WITH

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LABOUR/ INDUSTRIAL LAWS:

The contractor has to ensure the compliance of all provisions of labour / Industrial laws as applicable from time to time for all respective installations such as Payments / related components to the human resources engaged in this contract as outlined in ANNEXURE-1 at the end of Special Conditions of Contract in this document.

1. The contractor shall indemnify BGL against all losses or damages, if any, caused to it on account of acts of the personnel, if any, deployed by him.
2. All personnel deployed by the contractor should be on the roles of the contractor.
3. No contract worker below the age of 18 years shall be deployed on the work. Maximum permissible age shall be as per Scope of Work for respective resources or 50 years, whichever is lower.
4. The personnel to be deputed by the contractor shall strictly adhere to all security, fire and safety rules of BGL while at the site/work. His Work/Services will be supervised by the contractor / contractor representative. Contractor shall strictly adhere to the guidelines/instructions issued from time to time.
5. The contractor shall provide proper identification cards & licenses for his employees to be deputed by him for Services, duly signed by the contractor or authorized person on behalf of contractor.
6. Contractor shall deploy the personnel with no past criminal records. Also, the contractor has to provide police verification for all the persons deployed by him.
7. In case of accident, injury and death caused to the employee of the contractor while executing the Work under the contract, the contractor shall be solely responsible
8. All personnel deployed by the contractor should be on the rolls of the contractor and the contractor shall issue Employment / Identity cards to them.
9. Contractor/ his representative is required to supervise, control and give directions to the contract workers for discharging the contractual obligations.
10. A copy of the work order should be submitted to the Security Department by the contractor / his representative for facilitating the movement of men, machine and materials involved in the contract.
11. In case of accident, injury or death caused to the contract workers while executing the Work under the contract, the contractor shall be solely responsible for payment of adequate compensation, insurance money etc. to the next kith & kin of injured / diseased. Contractor shall indemnify BGL from such liabilities.
12. Defect liability Period: The defect liability period shall be six months from the date of actual completion of work. Any defect arising out due to any reason, which in the opinion of Engineer• In- Charge resulting due to above, during this period shall be rectified by the contractor at his own risk and cost.
13. Contractor shall also provide services on Saturday, holidays including Sundays (until and unless instructed otherwise by EIC) and nothing extra shall be payable on this account. The Contractor shall make his own arrangement for housing himself and his staff. BGL will not provide any accommodation.
14. Contractor shall in no case lease/ transfer/ sublet the job awarded to the contractor

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15. The Service provider shall defend and indemnify BGL from all suits, actions, claims, demands, liabilities, damages and expenses arising out of personal injury or death resulting there from to any of its personnel, while providing the services.
16. The following documents shall be submitted by the Agency/contractor to the Engineer In-Charge at various stages during the currency of the contract:

6.0 PAYMENT PROCEDURE

- 6.1 Monthly running bills to be submitted by the Agency/Contractor for verification and certification by Site-In-charge (SIC) at site. Subsequently, the bills will be duly certified by Engineer-In-charge (EIC) or a person authorized by him.
- 6.2 Payment will be made on monthly basis, after submission of all requisite documents for the claim month.
- 6.3 The final bill shall be submitted by the Agency/Contractor within a month from the date of completion of the contract after the closure approval and submission of NO due/ No claim certificate approved by BGL. Payment for the last month will be done on pro-rata basis for the number of days the contract was deployed till the date of completion.

7.0 GENERAL:

- 7.1 Any failure on the part of the Employer at any time to enforce the strict observances of the performance of any of the term(s) and condition(s) or rights, shall not effect or deprive the Employer to exercise the same at any later date.
- 7.2 The work will be supervised by Employer's Engineer-In-Charge or his representative and the Contractor has to strictly adhere to his instructions.
- 7.3 During the currency of this contract, Employer can increase and/or decrease the quantity of the work/ Service (s) required. The quantity of work / service (s) shown in the Schedule of rates is tentative.
- 7.4 Contractor will have to mobilize within 10 days from the date of Fax of Acceptance (FOA). The contract period shall be reckoned from the date of FOA.
- 7.5 The rates quoted against SOR Items shall remain firm till expiry/entire tenancy of this contract. It is agreed that the bidder has inspected the sites and assessed the nature and the extent of the work including the conditions prevalent under which the work is to be carried out.
- 7.6 No extra payment shall be made against any head such as pay revision (during the contract period if any), etc. Contractor has to quote accordingly after considering all such anticipated expenditure in his quoted rates.
- 7.7 Bidder will submit the CV and experience details of deployed Human Resources to the owner for approval of recruitment on his roll. Necessary interview shall be taken by EIC / its representative prior to deploying them at station.
- 7.8 The job mentioned under scope of work shall be carried out as per the work instructions, documentation and recommendation of the concerned EIC or his representative and as per the guidelines / directions given from time to time to the contractor by EIC or his authorized representative.
- 7.9 If the contractor fails to carry out job within the time stipulated and as per guidelines

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given by the EIC, BGL will have full right to get the job done by any other party at the sole risk and cost of the contractor as per the relevant clauses in General Conditions of Contract (GCC).


- 7.10** Personnel of contractor shall abide by the rules and regulations in respect of safety & security of prohibited areas and follows the procedures laid down by BGL from time to time.
- 7.11** In case any unscheduled failure of the installations serviced by the contractor within the contract period, it shall be binding on the contractor to mobilize all his resources (Man, Machine, Tool & Material) immediately to attend the complaint. It shall be in the scope of the contractor to reach the site along with trained and competent persons, fully equipped with the necessary tools to carry out the maintenance activity.
- 7.12** All free issue materials, tools & tackles issued by the company (if any) to the successful bidder shall be preserved against deterioration and corrosion while under contractor's custody. Any damages or losses suffered on account of non-compliance as losses suffered due to willful negligence on the part of the contractor and he shall be liable to compensate the company for losses suffered at penal rates.
- 7.13** All expenses towards mobilization at site and demobilization including bringing in equipment, work force, materials etc. shall be deemed to be included in the prices quoted against respective SOR and no separate payments on account of such expenses shall be entertained. The bidder has to quote the firm rates against all the SOR Items including Contractor's profit, etc.
- 7.14** All peripherals, stationary, writing pads etc. required for preparation of reports will have to be supplied by contractor.
- 7.15** The resources (Man, Machine, Tool & Material) deployment pattern shown above is Minimum Requirement at any point of time, actual deployment pattern may be changed as per the site requirement. Also, the deployment pattern shall be designed in such a way that each MPM shall cover the entire network of respective GA.
- 7.16** against quantities actually executed on day to day basis based on GPS report and contractual conditions. Contractor shall get all quantities executed duly certified by the Engineer-in-charge during the course of execution of works.

8.0 EXECUTION OF WORK

- 8.1** Accommodation/ Transportation/ Conveyance/ Medical: The Contractor shall make his own arrangement for the accommodation & medical assistance to his personnel at respective locations and subsequent transportation / conveyance arrangement for them from their place of residence to work place or any other place as required and Employer shall have no obligation in this respect. The Employer shall not be responsible for providing any medical assistance to the contractor personnel.
- 8.2** Discipline: The Contractor shall be responsible for the discipline and good behavior of all his personnel deployed in the services and should any complaint be received against any of his employee, he shall arrange to replace such person(s) within 24 hours of notice issued by the Engineer-in-Charge at his own cost. The decision of the Engineer-in-Charge in this matter shall be final and binding on the Contractor.

9.0 INTERPRETATIONS

- 9.1** Where any portion of the GCC is repugnant to or at variance with any provisions of the SCC then, unless a different intention appears, the provisions of the SCC shall be deemed to govern the provisions of the GCC and SCC provisions shall prevail to the extent of such repugnancy, or variations exist.
- 9.2** In Contract Documents unless otherwise stated specifically, the singular shall include the plural

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and vice versa wherever the context so requires.

9.3 Notwithstanding the sub-division of the Contract Documents into 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 with and into the Agreement so far as it may be practicable to do so.

9.4 Bidder/Contractor/Contractor/Service Provider carry the same meaning and is being used interchangeably in the tender document.

9.5 Owner/Employer/BGL/EIC carry the same meaning i.e. BGL and is being used interchangeably in the tender document.

10.0 REQUIREMENTS FOR CONTRACTOR AT SITE

10.1 Contractor shall supply transport for their technical staff and operatives to move from site to site, and to move tools and equipment from site to site.

10.2 Contractors shall make appropriate arrangements to ensure that their MPM are adequately mobile and can attend sites or meetings with BGL, other authorities or customers as required, without any undue delay.

11.0 COMPLIANCE WITH LAW

Contractor shall abide by all prevailing Laws of India including but not limited to:

11.1 Employees PF and Miscellaneous Provisions Act

11.2 Apprentices Act.

11.3 Contract labour (Regulation & Abolition) Act.

11.4 Employers Liability Act.

11.5 Environment Protection Act.

11.6 Factory Act.

11.7 Industrial Dispute Act.

11.8 Minimum Wages Act.

11.9 Payment of Wages Act.

11.10 Workman Compensation Act.

11.11 Any other Statute, Act, Law as applicable.

12.0 MEASUREMENT OF WORKS:


Measurement of WORKS shall be made in the units mentioned in the Schedule of Rates as per details given in Technical / Standards specifications. Wherever details are not available or inadequate in the execution drawings, physical measurements will be taken by the Contractor in the presence of the representative of the EIC. In such cases payment will be made on actual measurements.

13.0 CONTRACT PERIOD:

Contract shall be for the period of 2 (two) years from the date of FOI / FOA which is further extendable for another 12 months on same terms and conditions of tender document at sole discretion of BGL.

14.0 MOBILISATION PERIOD

The deployment for the services shall be within 01 week from the date of FOI / FOA. In case of failure, BGL reserves the right to cancel the contract.

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15.0 TERMINATION:

- 15.1** If the contractor fails to complete the work as per the details given above to complete the work in stipulated time as per satisfaction of the engineer in-charge or fails to observe all terms and conditions of this contract, BGL may terminate the Contract by issuing a one-week notice. In such case BGL may get executed the balance SOR Quantities by engaging other agency/agencies on the risk and cost of the contractor as per the relevant clauses in GCC.
- 15.2** BGL may, at its own discretion terminate the contract without mentioning any reason, thereof, by giving 30 days' notice to the contractor. The contractor has to vacate the site on expiry of 30 days period and hand over the site to BGL representative in good condition.


16.0 HEALTH, SAFETY AND ENVIRONMENT (HSE)

- All the safety rules and regulations prevailing and applicable from time to time at the installations as directed by EMPLOYER will be strictly adhered to by the Contractor.
- Contractor has to ensure the safety of man and machine all the times. Damages to equipment due to bad workmanship/negligence will be recovered as per the decision of Engineer-in-Charge, which will be final and binding upon the contractor.
 - Carrying / striking of matches, open flames, lighters or smoking or other such acts, which may cause fire hazards at the work site/ in the terminals / installations, is strictly prohibited.
 - Tobacco/ Ghutka chewing or other such acts, are strictly prohibited at the site.
 - In addition to the PRS clause defined in GCC, the penalty will be imposed as per instructions of the EIC, in case Contractor fails to follow safety norms and barricading as defined in the tender document under penalty clause.
 - Safety is of paramount importance while carrying out the maintenance activities.
 - Contractor shall obtain the necessary work permits while working at all sites from BGL & observe all the terms & conditions mentioned thereof. Contractor shall educate/instruct his labors for strictly obeying of "NO SMOKING" at all sites.
 - The contractor shall take all the necessary pre-cautions to prevent fire hazards during the execution of the work, necessary safety measures should be taken while venting the gas.
 - Contractor shall provide all required Uniform/ PPE during performing the entire job.
 - Contractor shall ensure all prevailing norms for preserving the environmental aspects especially no throwing of oil, grease & other chemicals. Also, to ensure the cleaning of site after completion of job.
 - Contractor shall ensure that existing installations at sites like cables, copper tubing's, electrical installation, etc. are not damaged during the job.
 - All personnel of the contractor entering on work premises shall be properly and neatly dressed and shall wear uniform, badges while working on premises of the company including work sites.

18.0 PENALTY:

Apart from the above, the following criteria also entitles for the imposition of penalties. In case, agency fails to provide the services during contract period or does not follow the tender conditions, penalty may be imposed as below:

- 18.1** If there is any shortfall in deployment of resources (Man, Machine, Tool & Material) as per tender provisions or not able to provide any requisite service or found being involved in malpractice / misconduct, BGL shall impose a penalty which shall be worked out by EIC based on the specific site requirements / the expenditure incurred by BGL to get the work done by making alternate arrangement / hiring other agency / Resources / amount worked out based on minimum wage of the related wage category of resources / etc. required for safe & timely completion of the particular job. The decision of the EIC shall be final in this regard.
- 18.2** The contractor shall disburse wages/salary (along with all statutory components) to their employees deployed under this contract on or before 07th date of each month through e- banking to bank accounts of individual employee through any reputed bank. The agency must submit Proof of e-payment of wages along with RA bills. If salary is not disbursed to employees by 7th of every month, BGL may impose a penalty of Rs. 100/- per day per employee from the contractor's corresponding month's RA bill / any subsequent RA bill. Similarly, the contractor shall deposit PF Contribution (Employee plus Employer's Share) by 15th of successive month, else BGL may impose a penalty of Rs. 100/- per day per employee from the contractor's corresponding month's RA bill/ any subsequent bill month's RA bill. Also, the contractor shall deposit ESI subscription by 15th of successive month, else BGL may impose a penalty of Rs. 100/- per day per employee from the contractor's corresponding month's RA bill/ any subsequent month's RA bill.
- 18.3** It may be noted by the bidders that BGL shall be free to deduct penalty even from the Performance Bank Guarantee.
- 18.4** All of the contractor's deployed human resources must wear prescribed uniform provided by the contractor, all the time. The design of uniform and logo shall be approved by BGL. In case of non-compliance, a penalty of Rs. 250 per incident per employee may be deducted from the RA Bills.
- 18.5** The contractor shall ensure that deployed human resources shall not indulge in any type of destructive activities. Any loss of BGL property shall be recovered from the RA Bill and / or CPBG at the rate of 2 times the value of the damaged property.
- 18.6** Penalty of Rs. 2,000/- per incident against non-observation and non-compliance of statutory requirements and HSE during execution of O&M work.
- 18.7** Penalty of Rs. 1,000/- per incident against non-availability of any tool / tackles shall be levied.
- 18.8** Motorcycle Patrol Men to be deployed for patrolling the pipeline will have to make round along the pipeline area & will be required to travel minimum 50 km (per shift per MPM) from designated starting point as decided by EIC, which shall be planned by the BGL EIC, with specified route during the 08 hours duty. In case of any failure by MPM to adhere to the specified kilometer travel in every shift or deviation from specified route without a valid reason, a penalty of Rs. 2,000/- per instance shall be deducted from the RA bill of the service provider.
- 18.9** In case any GPS device mal-functions, the same has to be repaired / replaced within 10 days of dispatch date, else, a penalty of Rs. 5,00 per day shall be levied until the same is received at site in good working condition. The penalty amount shall be deducted from RA bills.
- 18.10** In case the Web Hosting services are not available due to break down, a penalty of Rs. 500 per day may be imposed on pro rata basis.
- 18.11** The GPS devices & Web Hosting Services must be provided within 15 days of issue of FOI, but not later than 30 days of issue of FOI. Beyond this period a penalty of Re. 100 per GPS device or web hosting per day, whichever may be the case may be imposed. The GPS and Web Hosting System shall be declared commissioned after due demonstration and acceptance by Owner representative.

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18.12 Limiting the total penalty that can be imposed in a month will be 10% of the Monthly Bill (Without GST).

19.0 PREAMBLE TO SCHEDULE OF RATES (SOR)

19.1 The schedule of rate shall be read with all other sections with this bidding document.

19.2 The contractor is deemed to have studied drawings and details of works to be done within the time schedule and should have acquainted himself of the condition prevailing at site.

19.3 All costs and expenses for mobilization, equipment, transport and personnel to start the work within the stipulated time schedule shall be included in the item rate.

19.4 No claims whatsoever, except other than quantities actually executed due to any changes in the extent/ Scope of work, shall be admissible.

19.5 The payments of works shall be made against quantities actually executed. Contractor shall get all quantities executed duly certified by the Engineer-in-charge during the course of execution of works. Certified copies of measurements shall form the part of the invoice.

19.6 Bidders are required to quote for all items of Schedule of Rates for Particular Site where he is quoting failing which his offer will be rejected.

19.7 Schedule of Rates is being forwarded separately along with this tender.

20 PERFORMANCE SECURITY:

Bidder will provide Performance Guarantee @7.5 % of annualized order value within 30 days of award or 5% of Contract/Order Value within 30 days of award and balance to be deducted against each RA bills till balance 2.5% is deducted. The deducted amount can be release/deduction can be stopped against submission of bank guarantee of euivalent amount. The contract performance bank guarantee shall be valid 3 months beyond the Guarantee/ Warrantee period.

The Performance Guarantee shall be in form of either Demand Draft or Banker's Cheque or bank transfer through NEFT/RTGS/IMPS into BGL account, or irrevocable Bank Guarantee and shall be in the currency of Contract (issued by any Indian Scheduled bank or a branch of an International Bank situated in India and registered with Reserve Bank of India as Scheduled Foreign Bank). The Terms also to be read in line with Section Information to Bidders (ITB) (Vol I of II) of Bid Document.

There is no exemption to MSEs including SSI units from submission of Security Deposit/ Contract Performance Bank Guarantee (CPBG).