


| | | |
|---|---|---|
| Dr. D. N. Basak Town Planner (B) |  | GIS Cell Surat Municipal Corporation 1st Floor, Surat Urban Observatory & Emergency Response Centre (ICCC), Near Breadliner Circle, Udhna-Magdalla Road, Althan, Surat-395009 |
|---|---|---|

To,

.....
.....
.....
.....

Subject :- Quotation for establishing and taking readings of Permanent Ground Control Points by Differential Global Positioning System Survey (DGPS) at various locations across Surat Municipal Corporation boundary (area of interest 631.073 sq. km.).

You are requested to send your quotation subscribed as "Quotation for establishing and taking readings of Permanent Ground Control Points by Differential Global Positioning System Survey (DGPS) at various locations across Surat Municipal Corporation boundary (area of interest 631.073 sq. km.)" on or before Dt. 26/09/2023 Up To 5:00 P.M. in closed/sealed envelop. If any further Information is needed, it can be collected from the office of under signed.

I/We here quote the following item rate & agreed to carry out the quoted rate the mentioned work.

| Sr. No. | Description | Qty (Approx.) | Unit | Rate (including GST) | Amount |
|------------------------------|---|---------------|------|----------------------|--------|
| 1 | Quotation for establishing and taking readings of Permanent Ground Control Points by Differential Global Positioning System Survey (DGPS) at various locations across Surat Municipal Corporation boundary (area of interest 631.073 sq. km.) | 150 | No. | | |
| TOTAL AMOUNT | | | | | |
| Total Rs. in Words :- | | | | | |

I / We do here Quote/ Offer to execute above mentioned description of work in accordance with accompanying specification & condition in consideration of payment being.

Signature of Contractor
Address:-
Date:

Sd/-
Town Planner (B)
GIS Cell
Surat Municipal Corporation

1.1 SCOPE OF WORK:

| Sr. No. | Description |
|----------------|---|
| 1 | Establishment of Mounted (concrete) Reference/Base stations & rover points. |
| 2 | Data collection and processing procedures. |
| 3 | Upkeep of the Reference/Base stations & rover points for future surveys. |
| 4 | Submission of detailed project report with the details about GCP planning diagram, GPS equipment details and manuals, reference station details and its geodetic coordinate in ITRF latest epoch, data collection parameters, field photographs of all the locations, processing results, GCP network diagram and list of adjusted coordinates. |

1.2 TERMS & CONDITIONS:-

| | |
|----|---|
| 1 | Quotation once offered shall not be withdrawn except with permission of the competent authority of Surat Municipal Corporation. |
| 2 | Quotation once accepted shall be binding to the contractor. |
| 3 | The Rate shall be including all duties/ taxes, Transportation material & labour cost. All duties/ taxes levied by S.M.C. or any Govt. Department shall be payable by the contractor. |
| 4 | Right to accept any or to reject any or all the quotation Without assigning any reason thereof is reserved by the competent authority of Surat Municipal Corporation. Surat. |
| 5 | The decision of Deputy Municipal Commissioner, GIS Cell will be final in respect of disputes what so ever arise. |
| 6 | Earnest Money Deposit (EMD)in the form of DD/pay order only of Rs. 5000/- shall be submitted along with the quotation in the form of demand draft or pay order of any nationalized or scheduled bank in favour of Commissioner, S.M.C. payable at Surat. |
| 7 | The Contractor shall not raise any dispute, if quantity of work actually reduced or increased at the time of work due to any reason. |
| 8 | The contract shall be constituted according to and subject to laws in India and state of Gujarat and under the jurisdiction of courts of Gujarat at Surat City only. |
| 9 | Time limit of the work is 02 months from the issue of work order date. If the contractor fails to complete the work within the stipulated completion date for the work then he shall pay liquidated damages of 0.20% of contract value per day of delay in completion or part thereof as the case may however be subjected to a maximum of ten (10) percent of the contract value. |
| 10 | Quotation with other documents mentioned below shall invariably be submitted in hardcopy in closed/sealed envelop to the office at THE CHIEF ACCOUNTANT, SURAT MUNICIPAL CORPORATION, MUGLISARA, SURAT – 395 003 before dt:- 26 /09/2023 |
| 11 | Following documents are needed to be submitted along with the quotation (Bid documents): <ul style="list-style-type: none">• Self Attested Photocopy of Surveyor license certificate.• EMD• GST Registration Certificate.• PAN No. |

| | |
|----|--|
| | <ul style="list-style-type: none"> • Professional tax registration (EC/RC) certificate. • Signed Partnership agreement/ Partnership deed/ Power of attorney/ Board Resolution in case of semi Government/Government Organization for Building the tender document etc. (if applicable) • Solvency certificate from bankers of Nationalized/Scheduled bank for the 20% of quotation amount of whole work. (Valid for not less than 6 Months from date of quotation submission) • CA Certificate showing financial turnover of last three years. • Last three years Income Tax Clearance certificate. • Work completion certificates (only similar work will be considered.) <p>NOTE: All documents shall be self attested by the bidder.</p> |
| 12 | In case of absence of any documents mentioned above, the quotations shall be liable to be rejected. |
| 13 | The bidder shall have to enter into an agreement, surety and Undertaking on Non judicial stamp paper of Rs. 300 each for the said work after issue of work order and the same shall be obeyed. |
| 14 | The bidder shall have to submit the initial Security Deposit (S.D) at the rate of 2% of the total quoted amount in cash/DD/Pay-order of any scheduled bank (Payable at Surat) in favour of Municipal Commissioner within 15 days after issue of work order . If S.D. is not paid within 15 (Fifteen) days from the date of work order then the penalty at the rate of 0.065% per day of the amount of S.D shall be recovered. |

1.3 BASIC TECHNICAL SPECIFICATIONS & CONDITIONS:

| Sr. No. | Description |
|----------------|---|
| 1 | For Ground Control Point survey, AMRUT guide lines are to be followed strictly. (Please refer to "Formulation of GIS based Master Plan for AMRUT cities. Design & Standards" pg. no. 5, 3.1.2 Ground Control Points (GCPs) Standards required for Photogrammetric Block Adjustment and Ortho-rectification of satellite data). Also refer to "Annexure III, DGPS Survey for GPS points for Geo-referencing/ortho-rectification of Satellite Image ESTABLISHING GEODETIC REFERENCE FRAME FOR ULBS USING GNSS TECHNIQUES". |
| 2 | Base Stations shall be kept stable continuously for a period of 3 consecutive days with a minimum of 12 hrs per day with 15 sec epoch rate. |
| 3 | Rest all rover points to be captured with minimum 30 minutes observations. |
| 4 | Accuracy target for the GCPs is expected to be less than 5 cm. |
| 5 | Complete AOI is divided into minimum 2 km x 2 km grid and minimum one point to be captured in every single grid. |
| 6 | Base points and Rover Points shall be at permanent structure like municipal buildings, schools, temples, historical monuments, corner of culvert/ bridge etc. No readings at temporary structure will be accepted. All points will be given by SMC & is liable to change as per site situation if situations prevail. Each GCP shall be identified with suitable permanent feature which is seen on the ground as well as on the image data. The location where GPS is being operated shall be clear to sky without obstruction to track GPS signals. |
| 7 | A cement concrete (1:2:4) structure of 2 ft x 2 ft x 2ft shall be made and a brass plate marked with dot and circle shall be embedded on the top of the monument. Cement concrete base shall be embedded into ground in such way that only 300 mm is seen |

| | |
|----|---|
| | above the Ground Level. A survey-grade dual frequency GPS receiver shall be operated with Tripod in static mode at this reference monument for a period of 3 consecutive days with a minimum of 12 hrs per day with 15 sec epoch rate and the 3 days data shall be processed with Single Point Positioning or Precise Point Positioning technique to derive the geodetic coordinates of the reference station in ITRF (International Terrestrial Reference System) reference frame. |
| 8 | All points shall be marked with paint with their unique ID. Good resolution quality photographs shall be taken from all 4 directions from the point for better identification on image for future. |
| 9 | Ground verification will be done for 5-10% random GCP points during the survey. If the accuracy level found to be less than 95%, entire work will be rejected. New survey needs to be carried out in this scenario. |
| 10 | Survey parameters like Receiver and Antenna make and model no., Antenna height, Observation time session, GDOP value, epoch time, Making of Sketches, filed photographs in all direction shall be documented properly on the field log sheet for every GCP location. Geometric Dilution of Precision (GDOP) shall be monitored and recorded and should not exceed 2.5 nominally. |
| 11 | Data quality parameters like cycle slips, no. of satellite tracked, observed GDOP values shall be checked soon after the survey to ensure good quality of the data collected at reference station as well as at rover stations before data processing. |
| 12 | Data processing shall be carried out with baseline processing for each session and network adjustment for all the sessions and ensure that loop closure accuracy results shall be better than 1 on 50,000 which is the geodetic standard for static surveys. The final adjusted coordinates shall be in Geographic coordinate system and also in WGS-84 coordinate system and UTM projection. |
| 13 | A project report shall be submitted with the details about GCP planning diagram, GPS equipment details and manuals, reference station details and its geodetic coordinate in ITRF latest epoch, data collection parameters, field photographs of all the locations, processing results, GCP network diagram and list of adjusted coordinates. Soft copy of entire work will need to be submitted into CD/DVD format. DGPS point file shall be one single file with attribution Unique ID, Latitude, Longitude (Readings of from DGPS Survey), Point Type (Base/Rover), permanent structure type, etc. |
| 14 | Records shall be maintained for all DGPS points: All base point and their relevant rover points. It shall clearly bifurcate which points are taken as base points, which rover points belong to which base. |
| 15 | Bidder shall have minimum 3 DGPS survey kits. All kits shall be well calibrated. Photocopy of Calibration certificate for each DGPS kits shall be submit at time of submission. |
| 16 | Certified Surveyor shall perform the task and their records shall also maintain which shall be submitted to SMC. GCPs taken by which surveyor shall be noted. |
| 17 | Observations shall be made using dual-frequency GPS receivers and L1/L2 geodetic ground plane antennas tripods with bubble levels shall be used to minimize setup errors. Base station and rover stations shall be operated at 15 sec epoch rate and observation period of min. 1 hr shall be adopted for base line length of 10 km. Baseline distances of 10 km. - 20 km. shall be observed with minimum of 30 min. time period. High configuration dual frequency DGPS machines shall be used in Base station establishment activity. |
| 18 | GPS antenna shall be mounted on tripod during survey for reference station as well at |

| | |
|----|---|
| | GCP location during data collection. |
| 19 | Quantities in the schedule of works are liable to variation without any benefit of increase in rate or compensation on any accounts whatsoever. Such variations in quantities may be due to any reason such as deletion / addition in the scope of work including extra / substitute GCP points etc. No extra claim in any form will be entertained for escalations in any form what so ever towards completion of this work. |
| 20 | The Benchmarks shall be constructed at every 10 km interval along the entire stretch of survey and shall be linked with Survey of India (SOI) benchmarks using DGPS survey. |

Signature of Contractor

Address:-

Date:

Sd/-

Town Planner (B)

GIS Cell

Surat Municipal Corporation

સ.ર. એકઝી. આસી.શ્રી (આઈ.એસ.ડી.) પ્રતિ

સુરત મહાનગરપાલિકાની હદ વિસ્તારમાં (Area of Interest(AOI) ૬૩૧.૦૭૩ sq.km.) વિવિધ જગ્યાઓ પર Differential Global Positioning System Survey (DGPS) ધ્વારા નવા ગ્રાઉન્ડ કંટ્રોલ પોઈન્ટ્સ "GROUND CONTROL POINTS" (GCPs) સ્થાપિત કરવાના કામે ભાવપત્રક મંગાવવામાં આવેલ છે. જેને સુરત મહાનગરપાલિકાની વેબસાઈડ પર પ્રસિધ્ધ કરવાનું હોય, આ પત્ર અપલોડ કરવા ઘટનું થવા વિનંતી.

| | | |
|---------------|----|--|
| કામનું નામ | :- | સુરત મહાનગરપાલિકાની હદ વિસ્તારમાં (Area of Interest(AOI) ૬૩૧.૦૭૩ sq.km.) વિવિધ જગ્યાઓ પર Differential Global Positioning System Survey (DGPS) ધ્વારા નવા ગ્રાઉન્ડ કંટ્રોલ પોઈન્ટ્સ "GROUND CONTROL POINTS" (GCPs) સ્થાપિત કરવાનું કામ. |
| શરૂઆતની તારીખ | :- | 11 / 09 / 2023 ના સાંજે ૫.૦૦ કલાક થી |
| અંતિમ તારીખ | :- | 26 / 09 / 2023 ના સાંજે ૫.૦૦ કલાક સુધી |

નં. જી.આઈ.એસ/આઉટ/ 134

તા. ૦૬/૦૯/૨૦૨૩

ટાઉન પ્લાનર(બી)

GIS CELL

સુરત મહાનગરપાલિકા

સ.ર. એકઝી. આસી.શ્રી (આઈ.એસ.ડી.) પ્રતિ

સુરત મહાનગરપાલિકાની હદ વિસ્તારમાં (Area of Interest(AOI) ૬૩૧.૦૭૩ sq.km.) વિવિધ જગ્યાઓ પર Differential Global Positioning System Survey (DGPS) ધ્વારા નવા ગ્રાઉન્ડ કંટ્રોલ પોઈન્ટ્સ "GROUND CONTROL POINTS" (GCPs) સ્થાપિત કરવાના કામે ભાવપત્રક મંગાવવામાં આવેલ છે. જેને સુરત મહાનગરપાલિકાની વેબસાઈડ પર પ્રસિધ્ધ કરવાનું હોય, આ પત્ર અપલોડ કરવા ઘટનું થવા વિનંતી.

| | | |
|---------------|----|--|
| કામનું નામ | :- | સુરત મહાનગરપાલિકાની હદ વિસ્તારમાં (Area of Interest(AOI) ૬૩૧.૦૭૩ sq.km.) વિવિધ જગ્યાઓ પર Differential Global Positioning System Survey (DGPS) ધ્વારા નવા ગ્રાઉન્ડ કંટ્રોલ પોઈન્ટ્સ "GROUND CONTROL POINTS" (GCPs) સ્થાપિત કરવાનું કામ. |
| શરૂઆતની તારીખ | :- | 11 / 09 / 2023 ના સાંજે ૫.૦૦ કલાક થી |
| અંતિમ તારીખ | :- | 26 / 09 / 2023 ના સાંજે ૫.૦૦ કલાક સુધી |

નં. જી.આઈ.એસ/આઉટ/ 134

તા. ૦૬/૦૯/૨૦૨૩

ટાઉન પ્લાનર(બી)

GIS CELL

સુરત મહાનગરપાલિકા

SURAT MUNICIPAL CORPORATION
LIST OF LOCATIONS OF VARIOUS GCPs.

| WKT | name | description |
|------------------------------------|-------------|---|
| POINT (72.746954 21.261483 0.0) | Point 1 | Ambheta primery school |
| POINT (72.756907 21.275558 0.0) | Point 2 | Sonsank panchayat bhavan |
| POINT (72.779344 21.262401 0.0) | Point 3 | Saroli SAI temple |
| POINT (72.788019 21.272112 0.0) | Point 4 | KVMangukiya School |
| POINT (72.819629 21.260836 0.0) | Point 5 | ranchod rai temple |
| POINT (72.834391 21.260041 0.0) | Point 6 | SMC Garden |
| POINT (72.856452 21.26319 0.0) | Point 7 | Madhuvan school |
| POINT (72.847369 21.25746 0.0) | Point 8 | SMC LIBRARY KOSAD |
| POINT (72.866752 21.257226 0.0) | Point 9 | ward office kosad bharthana |
| POINT (72.895092 21.25446 0.0) | Point 10 | SMC GARDEN GOPINGAM EZ-B |
| POINT (72.910931 21.255715 0.0) | Point 11 | WARD OFFICE VALAK EZ-B |
| POINT (72.92448 21.248496 0.0) | Point 12 | LASHKANA PRIMARY SCHOOL |
| POINT (72.943826 21.255143 0.0) | Point 13 | JB DIAMOND SCHOOL |
| POINT (72.872519 21.265391 0.0) | Point 14 | BHARTHANA KOSAD PRATHMIK SHADA |
| POINT (72.863931 21.283637 0.0) | Point 15 | Velanja-Gothan road culvert |
| POINT (72.900376 21.291402 0.0) | Point 16 | Shiv Temple velanja gothan road |
| POINT (72.899479 21.271985 0.0) | Point 17 | culvert edge (Kankrapar Canal Road) |
| POINT (72.911651 21.272708 0.0) | Point 18 | Abarama ward office |
| POINT (72.935222 21.266375 0.0) | Point 19 | Karabhai Farm Laskana- Kholvad road |
| POINT (72.944885 21.270943 0.0) | Point 20 | P P Savani school kholvad |
| POINT (72.91951 21.295459 0.0) | Point 21 | Radhe Krishna temple |
| POINT (72.926656 21.296454 0.0) | Point 21 | Kathor section office- irrigation dept. |
| POINT (72.941822 21.289634 0.0) | Point 23 | Kathor high school |
| POINT (72.956151 21.303113 0.0) | Point 24 | KM CARS SCRAP COMPOUND WALL CORNER |
| POINT (72.92565 21.313217 0.0) | Point 25 | VELANJA PARDI ROAD CULVERT EDGE |
| POINT (72.90681 21.298911 0.0) | Point 26 | MADHUVAN SCHOOL CORNER |
| POINT (72.883132 | Point | GOTHAN TRANSFORMAR C.W |

| | | |
|------------------------------------|-------------|--|
| 21.298156 0.0) | 27 | |
| POINT (72.740514 21.246565 0.0) | Point 28 | CULVERT (NEAR DANDI ROAD) |
| POINT (72.751839 21.247732 0.0) | Point 29 | DANDI ROAD -SHWAY JUNCTION |
| POINT (72.79076 21.246729 0.0) | Point 30 | SMC ROSE GARDEN |
| POINT (72.819742 21.244387 0.0) | Point 31 | SWAMINARAYAN GURUKUL ENTRY GATE |
| POINT (72.84116 21.248937 0.0) | Point 32 | CHHAPARABHATA PUMPING STATION |
| POINT (72.737224 21.231252 0.0) | Point 33 | SOMESHWAR MAHADEV TEMPLE |
| POINT (72.76273 21.228259 0.0) | Point 34 | HAJIRA SAYAN ROAD- CANAL CULVERT JUNCTION |
| POINT (72.790134 21.229143 0.0) | Point 36 | JAHANGIRPURA SMC COMMUNITY HALL |
| POINT (72.776611 21.231716 0.0) | Point 35 | PODDAR INTERNATIONAL SCHOOL ENTRY GATE |
| POINT (72.817393 21.234521 0.0) | Point 37 | DABHOLI FIRE STAFF QUATERS |
| POINT (72.832771 21.235733 0.0) | Point 38 | HATHI MANDIR ROAD PARTY PLOT (AMBATALAVDI) |
| POINT (72.860821 21.228383 0.0) | Point 39 | UTRAN COMMUNITY HALL |
| POINT (72.879832 21.237894 0.0) | Point 40 | MOTA VARACHHA COMMUNITY HALL |
| POINT (72.899193 21.229939 0.0) | Point 41 | SARTHANA ZOO ENTRY POINT |
| POINT (72.904223 21.226927 0.0) | Point 42 | SIMADA WATER WORKS |
| POINT (72.932954 21.240564 0.0) | Point 43 | ABHINAV BHARAT SCHOOL COMPOUND CORNER |
| POINT (72.944921 21.237435 0.0) | Point 44 | OPERA INTERNATIONAL SCHOOL ENTRY GATE |
| POINT (72.929643 21.225855 0.0) | Point 45 | KHADSAD ROAD PRIVATE RESIDENCY ENTRY GATE |
| POINT (72.905808 21.222915 0.0) | Point 46 | VRAJRAJ RESIDENCY (SIMADA) COP CORNER |
| POINT (72.890518 21.211795 0.0) | Point 47 | YOGI CHOWK COMMUNITY HALL |
| POINT (72.86679 21.212004 0.0) | Point 48 | KARANJ URBAN HEALTH CENTRE |
| POINT (72.85077 21.214535 0.0) | Point 49 | SARDAR PATEL SMRUTI BHAVAN EZ-A |
| POINT (72.834704 21.217554 0.0) | Point 50 | VASTADEVDI COMMUNITY HALL, NZ |
| POINT (72.814532 21.211859 0.0) | Point 51 | BHARIMATA COMMUNITY HALL, NZ |
| POINT (72.777027 21.213051 0.0) | Point 52 | PALANPOR WARD OFFICE |
| POINT (72.756357 21.215848 0.0) | Point 53 | BHESAN LAKE GARDEN |
| POINT (72.739383 21.218698 0.0) | Point 54 | COUNTRYSIDE INTERNAtional school, DIHEN- BARBODHAN ROAD |
| POINT (72.721425 21.21544 0.0) | Point 55 | BARBELLA ENTRY GATE |

| | | |
|------------------------------------|-------------|---|
| POINT (72.723173 21.190711 0.0) | Point 56 | COMMERCIAL COMPLEX NR. ONGC CIRCLE, HAZIRA ROAD |
| POINT (72.739238 21.192058 0.0) | Point 57 | PANCHVATI GARDEN |
| POINT (72.764083 21.201297 0.0) | Point 58 | SMC GARDEN, NR. EDEN CIRCLE |
| POINT (72.787401 21.194559 0.0) | Point 59 | ONEIROS SPORTS CLUB |
| POINT (72.80502 21.190362 0.0) | Point 60 | BAPS TEMPLE, ADAJAN |
| POINT (72.816343 21.192221 0.0) | Point 61 | DADABHAI PANDYA SWIMMING POOL, NANPURA. |
| POINT (72.839549 21.187806 0.0) | Point 62 | KAMELA DARWAJA KATALKHANA, RINGROAD |
| POINT (72.848338 21.200425 0.0) | Point 63 | SWAMI VIVEKANAND AUDITORIUM |
| POINT (72.866328 21.192962 0.0) | Point 64 | MAGOB SHELTER FOR URBAN HOMELESS |
| POINT (72.853865 21.183639 0.0) | Point 65 | MITHI KHADI CULVERT |
| POINT (72.838739 21.176288 0.0) | Point 66 | CULVERT EDGE |
| POINT (72.716114 21.183812 0.0) | Point 67 | HPCL ENTRY GATE |
| POINT (72.731343 21.175427 0.0) | Point 68 | COURTYARD MARRIOTT ENTRY |
| POINT (72.764166 21.181647 0.0) | Point 69 | VISHALARESTAURANT ENTRY |
| POINT (72.780112 21.181835 0.0) | Point 70 | PAL UMARA BRIDGE END POINT |
| POINT (72.795775 21.170679 0.0) | Point 71 | SCIENCE CENTRE CORNER |
| POINT (72.818932 21.178918 0.0) | Point 72 | CIVIL HOSPITAL ENTRY |
| POINT (72.877724 21.179362 0.0) | Point 73 | PARVAT MAGOB BUS DEPOT ENTRY |
| POINT (72.891873 21.183589 0.0) | Point 74 | KUBER NAGAR COP CORNER |
| POINT (72.909716 21.184586 0.0) | Point 75 | SURAT-BARDOLI ROAD -JAIN DERASAR |
| POINT (72.889133 21.204756 0.0) | Point 76 | PARVAT PATIYA CANAL ROAD- MAHADEV HANUMAN MANDIR |
| POINT (72.914519 21.20322 0.0) | Point 77 | SANIYA HEMAD KOSMADA ROAD- OUTER RING ROAD |
| POINT (72.933598 21.213555 0.0) | Point 78 | VALTHAN PUNAGAM CANAL ROAD |
| POINT (72.958138 21.209581 0.0) | Point 79 | VALTHAN PUNAGAM CANAL ROAD |
| POINT (72.968753 21.217487 0.0) | Point 80 | KAMREJ- KADODARA ROAD |
| POINT (72.968843 21.225979 0.0) | Point 81 | KAMREJ KAPODADRA ROAD- BALAJI ENTERPRICE |
| POINT (72.735535 21.166617 0.0) | Point 82 | HAZIRA ROAD- NANAVATI TOYOTA |
| POINT (72.767625 21.155031 0.0) | Point 83 | LALBHAI STADIUM GATE |
| POINT (72.785057 | Point | SVNIT MAIN GATE |

| | | |
|---------------------------------|-----------|--|
| 21.167337 0.0) | 84 | |
| POINT (72.802328 21.160638 0.0) | Point 85 | ICCC |
| POINT (72.818871 21.158939 0.0) | Point 86 | BHATAR STP |
| POINT (72.835268 21.152832 0.0) | Point 87 | SONAL SANKALIT WARD OFFICE, CHIKUWADI |
| POINT (72.861678 21.158636 0.0) | Point 88 | DINDOLI FLYOVER BRIDGE END POINT |
| POINT (72.878308 21.156444 0.0) | Point 89 | DINDOLI FLOWER GARDEN |
| POINT (72.88911 21.159027 0.0) | Point 90 | OPEN PLOT COMPOUND, NR. GODADARA GAM |
| POINT (72.888869 21.147212 0.0) | Point 91 | OPEN PLOT COMPOUND, GREEN VALLEY ROAD |
| POINT (72.880765 21.150322 0.0) | Point 92 | DINDOLI SWIMMING POOL |
| POINT (72.849684 21.13855 0.0) | Point 93 | BHESTAN SHELTER FOR URBAN HOMELESS |
| POINT (72.832262 21.146971 0.0) | Point 94 | SMC GARDEN, PANDESARA |
| POINT (72.808803 21.14898 0.0) | Point 95 | ALTHAN BUS DEPO |
| POINT (72.803457 21.144036 0.0) | Point 96 | BHARTHANA VBDC UNIT & BHIMRAD - KHAJOD WARD OFFICE |
| POINT (72.774358 21.146076 0.0) | Point 97 | SUDA BHAVAN GATE, VESU |
| POINT (72.756315 21.145026 0.0) | Point 98 | RUNDH-MAGDALLA PARTY PLOT & community hall |
| POINT (72.746903 21.144333 0.0) | Point 99 | ONGC HAZIRA BRIDGE END POINT |
| POINT (72.72813 21.136862 0.0) | Point 100 | OPEN PLOT COMPOUND WALL |
| POINT (72.704476 21.142172 0.0) | Point 101 | BLOCK |
| POINT (72.687234 21.13306 0.0) | Point 102 | OPEN PLOT |
| POINT (72.690343 21.11775 0.0) | Point 103 | BLOCK |
| POINT (72.708336 21.119182 0.0) | Point 104 | AB FARMHOUSE COMPOUND WALL EDGE |
| POINT (72.723801 21.122942 0.0) | Point 105 | DPS PARKING LOT COMPOUND WALL EDGE |
| POINT (72.736281 21.11897 0.0) | Point 106 | DACATHLON COMPOUND EDGE |
| POINT (72.763282 21.12969 0.0) | Point 107 | STATE HIGHWAY-ONGC FLYOVER BRIDGE END |
| POINT (72.77251 21.125909 0.0) | Point 108 | shree balaji india sai abhishek party plot edge |
| POINT (72.793583 21.118709 0.0) | Point 109 | DIAMOND BOURSE ENTRY GATE |
| POINT (72.816736 21.120456 0.0) | Point 110 | BAMROLI SEWAGE TREATMENT PLANT |
| POINT (72.834871 21.128209 0.0) | Point 111 | VADOD WARD OFFICE & URBAN HEALTH CENTRE |
| POINT (72.854725 21.123941 0.0) | Point 112 | GANESHNAGAR BHESTAN OPEN VENDING MARKET |

| | | |
|------------------------------------|--------------|--|
| POINT (72.869427 21.129566 0.0) | Point 113 | BHESTAN H-15 AAWAS COMMUNITY HALL |
| POINT (72.891246 21.131444 0.0) | Point 114 | SANIYA KANDE PRIMARY SCHOOL |
| POINT (72.887275 21.109447 0.0) | Point 115 | EKLERA ROAD JUNCTION |
| POINT (72.867648 21.10661 0.0) | Point 116 | KHADI CULVERT EDGE |
| POINT (72.853616 21.112555 0.0) | Point 117 | SMC UNN READING ROOM |
| POINT (72.845698 21.108191 0.0) | Point 118 | STATE HIGHWAY CULVERT, NR. ECOM EXPRESS WAREHOUSE |
| POINT (72.826739 21.110012 0.0) | Point 119 | RAMJI NI WADI |
| POINT (72.793208 21.10175 0.0) | Point 120 | OPEN PLOT COMPOUND WALL |
| POINT (72.801772 21.209944 0.0) | Point 121 | GORAT SHELTER FOR URBAN HOMELESS |
| POINT (72.707347 21.0941 0.0) | Point 122 | DUMAS URBAN HEALTH CENTRE |
| POINT (72.723412 21.085373 0.0) | Point 123 | SWAMINARAYAN TEMPLE DUMAS |
| POINT (72.722983 21.101941 0.0) | Point 124 | VICTORIA PALM SOCIETY DUMAS |
| POINT (72.828923 21.086644 0.0) | Point 125 | GABHENI PRIMARY SCHOOL |
| POINT (72.875737 21.076613 0.0) | Point 126 | KANAKPUR COMMUNITY HALL |
| POINT (72.886704 21.07847 0.0) | Point 127 | SACHIN WARD OFFICE |
| POINT (72.874674 21.059931 0.0) | Point 128 | KANSAD LAJPUR FLYOVER BRIDGE |
| POINT (72.761687 21.111238 0.0) | Point 129 | ECO FARM KING'S VILLA |
| POINT (72.810229 21.28003 0.0) | Point 131 | KUNTAL FARM COMPOUND WALL (KANTARA) |
| POINT (72.851476 21.279704 0.0) | Point 132 | HAZINRA-SAYAN ROAD CULVERT |
| POINT (72.839779 21.293037 0.0) | Point 133 | NILKANTH FARM (MORADIYA ROAD) |
| POINT (72.926434 21.329415 0.0) | Point 134 | MONARCH INTERNATIONAL SCHOOL GATE, HAZIRA ADAJAN ROAD |
| POINT (72.904595 21.326332 0.0) | Point 135 | HARIDARSHAN VIDHYA SANKUL, SAYAN-SHEKHPUR ROAD. |
| POINT (72.734509 21.083735 0.0) | Point 136 | CK PITHAWALA CRICKET GROUND COMPOUND |
| POINT (72.838681 21.071676 0.0) | Point 137 | UMBER WARD OFFICE, UMBER GAM |
| POINT (72.861388 21.033425 0.0) | Point 138 | NADOD GRAM PANCHAYAT OFFICE |
| POINT (72.814105 21.065483 0.0) | Point 139 | ISOLATED BUILTUP |
| POINT (72.804524 21.065437 0.0) | Point 140 | ISOLATED BLOCK |
| POINT (72.824584 21.03805 0.0) | Point 141 | ISOLATED BLOCK |
| POINT (72.812999 | Point | ISOLATED BUILT-UP |

| | | |
|------------------------------------|--------------|-----------------------------|
| 21.048696 0.0) | 142 | |
| POINT (72.890926 21.044428 0.0) | Point 143 | PONSARA GOVT. SCHOOL |
| POINT (72.750185 21.074491 0.0) | Point 144 | ISOLATED BUILT-UP |
| POINT (72.782815 21.073041 0.0) | Point 145 | ISOLATED BLOCK |
| POINT (72.8829 21.317562 0.0) | Point 146 | DRGD SARVAJANIK HIGH SCHOOL |
| POINT (72.813511 21.306388 0.0) | Point 147 | OPEN PLOT |
| POINT (72.815902 21.314952 0.0) | Point 148 | OPEN PLOT |
| POINT (72.849842 21.307416 0.0) | Point 149 | ANJANI TEXTILE PARK |
| POINT (72.783324 21.079914 0.0) | Point 150 | ISOLATED BLOCK |

LOCATIONS OF VARIOUS GCPs

