



# **KOLMANS GEOMATIC CONSULTANTS(K)LTD**

**Land & Engineering Surveying,  
Mapping consultants**

## **FIRM'S PROFILE**



### **Physical Address:**

**SOLAR HOUSE, 4TH FLOOR,  
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[kolmansgeomaticconsultants@gmail.com](mailto:kolmansgeomaticconsultants@gmail.com)**

### **MANAGING DIRECTOR:**

**MR. STEPHEN ODONGO AMBANI  
B.Sc (Surveying) Uon,  
MISK, Licensed Land Surveyor (k).  
Chairman ISK  
YEAR ESTABLISHED: 2005.**

**Promoting integrity and precision in Mapping and surveying consultancy**

**PREAMBLE**

Kolmans Geomatic Consultant Ltd is a dedicated multidisciplinary, surveying & mapping Consultancy Firm, duly licensed. Principals of the firm are Kenyans, and the Firm is based in Nairobi.

The Principals are well-trained professionals with wide experience in professional disciplines including Planning, Surveying and Mapping, Engineering and GIS data management.

**VISION**

To be a leading provider in Land and engineering surveying.

**MISSION**

Kolmans Geomatic Consultant are committed to providing quality planning, surveying and mapping solutions for performance improvement. Our mission is to improve human welfare and sustainable land use on which life depends through provision of accurate geo-information.

**OUR CORE VALUES**

Our goal is to provide economical and sound professional geo-information to government agencies, general public the private sector and the donor community. In this quest, kolmans Geomatic consultant encourages integrated planning initiatives by building on and using existing technical knowledge. Kolmans Geomatic consultant’s objectives are to offer practical solutions in surveying, mapping, planning and Engineering works.

## **Background**

Kolmans Geomatic Consultants Kenya Ltd was established in **2005** as an independent and indigenous firm offering specialist advice on all aspects of land development. The firm specializes in diverse activities including Land and engineering survey, planning and property consultancy. In executing its functions, Kolmans Geomatic consultants (K) Ltd adheres to the highest professional standards possible and collaborates with other agencies with common interest to achieve results. Clients rely on our experienced and distinguished staff that focus on creating, rather than just promoting change using skills that combine deep experience of sectors and professions with an innovative, insight-driven approach. We know that growth is inevitable with our provision of quality work.

Kolmans Geomatic Consultants Kenya Ltd has the ability to successfully handle projects from the simplest to the most complex and controversial in nature, and which require the highest level of expertise, dedication and innovation. We are noted for the quality of our work, as well as the people who represent us. We strive to provide unique and innovative solutions to problems. Particular emphasis is placed on integrated planning and development, implementation of programmes, and policies that ensure judicious use of land resources and minimization of negative environmental impacts.

One of the distinguishing characteristics of Kolmans Geomatic Consultant is its interdisciplinary and comparative approach to the analysis of planning, surveying & mapping as well as development issues. Its interdisciplinary nature is manifest in incorporation of concepts and frameworks from professional discipline including planning, surveying and photogrammetry. This means that our staff is well accustomed to working across discipline boundaries and can therefore competently deal with such issues as planning, surveying & mapping.

An interdisciplinary staff with practical and academic backgrounds characterizes our strong in-house professional team. Kolmans Geomatic Consultants Kenya Ltd professionals have extensive experience, which has been demonstrated by teaching and research at the university level and practical application in public and private sectors. In order to supplement the firm's consultants and to maintain contact with the state-of-the-art development in all fields, Kolmans Geomatic Consultants Kenya Ltd maintains a close association with professional firms with whom it co-operates often, depending on the nature of the project and the very specialized expertise it may require. Together they constitute a capacity strong enough to address even the most challenging tasks.

Kolmans Geomatic Consultants Kenya Ltd project teams have the experience, skills, and social sensitivity needed to solve complex planning and development issues. Working with local counterparts, team members craft an integrated approach to project implementation and management. The principle of local solutions to problems has always guided Kolmans Geomatic Consultants Kenya Ltd. We view outside consultants, ideas and resources as catalysts to help localized solutions come to life. Problem analysis at the grassroots level and active community participation often lead to realistic and sustainable solutions.

Kolmans Geomatic Consultants Kenya Ltd remain extremely proud of its work, reputation, local and international accomplishments and relations.

## OUR APPROACH

Our work is guided by Kolmans Geomatic Consultants Kenya Ltd core values, in particular, the need to draw on global best practices from the planning and surveying world, and to be leader in planning and surveying and applying innovative solutions to challenging development issues. To attain excellence in the practice of planning and development. Kolmans Geomatic Consultants Kenya Ltd approach to planning assumes a 3-step approach:-

- ♣ Kolmans Geomatic Consultants conduct in-house needs assessments and hold discussions with the client to determine the needs and strategies on the way forward;
- ♣ Jointly with the client, Kolmans Geomatic Consultants develops appropriate programmes to address the problem/issue;
- ♣ Kolmans Geomatic Consultants follows up the clients and provide them with individualized support and advisory services in the implementation of the action plans;
- ♣ After a reasonable duration, review workshops are made and remedial programmes embarked upon. At this stage, new needs emerge and fresh ideas are developed.

In other words, consultancy is viewed as a means to an end, and not an end in itself. Kolmans Geomatic Consultants comparative advantage lies in the fact that its programmes result in continuing and sustainable partnerships with client organizations. Kolmans Geomatic Consultants thrives to ensure that results of planning and development assignments are credible and that planning assignments are effective, through choices of most appropriate approaches, methods and techniques for each individual assignment. To this effect, we keep our services up-to-date with advancements and trends in planning, surveying, and mapping and management fronts.

## MOTTO

Our Motto is Honesty, Diligence, Accuracy.

**SERVICES PROVIDED**

Kolmans Geomatic Consultants provides a full complement of professional services on a number of themes, outlined below (but not limited to):

- ♣ Land Surveying
- ♣ Geographical Information System (GIS)
- ♣ Global positioning systems (GPS)
- ♣ Survey of Power Transmission lines
- ♣ Topographical & Engineering Surveys
- ♣ Acquisition of property

Themes of strategic importance to all areas are poverty alleviation and environmental sustainability.

## PLANNING, LAND SUB-DIVISION AND RURAL DEVELOPMENT

A majority of populations in the developing world live in rural areas where increased production demands to feed the ever-growing populations, both in the rural and urban areas, is putting severe strains on the natural resource base. Decreased productivity coupled with poor infrastructure and services in the rural areas has led to massive rural-urban migration compounding the already difficult urban situation. Balanced rural development is key to sustainable urban development. Kolmans Geomatic Consultant Ltd' staff uses participatory methods with rural communities and farmer groups, making them central actors in determining development options and managing key resources. Kolmans Geomatic Consultant undertakes to propose rural development plans including land sub-division and alienating areas for use such as schools, health care facilities, housing, rural access roads, water, commercial centers and all the public land use. Other priorities within the program include conflict resolution, environmental management and gender empowerment. Kolmans Geomatic Consultant experience covers many aspects of rural development, including:-

- ♣ Sub-division of schemes for individual title and development
- ♣ Planning for public land use (schools, health centers, markets, etc)
- ♣ Land capability assessments and general land use planning
- ♣ Agro forestry / soil conservation projects

CADAstral

## ACQUISITION

Acquisition of l property surveys are carried out to provide plans for use in preparation of documents of acquisition for alienation purposes to determine areas for rental and compensation purposes, the end products are usually strips plans

SECTION

## TOPOGRAPHICAL & ENGINEERING SURVEYS

Topographical surveys, profiling, precise leveling, earthworks setting out and volume surveys are done with the help of Leica total station, state-of-the-art-software are used to ensure accurate and visually appealing maps are produced.

## Kolmans Geomatic Consultant Organizational Chart

The management structure of Kolmans Geomatic Consultant (K) Ltd has been developed to encourage flexibility and autonomy on the part of its staff. It creates space for professional creativity and the development of programmes. Hence it is one that is aimed at providing institutional encouragement to staff to adapt and vary their work as evolving circumstances warrant.

At the same time, management systems at Kolmans Geomatic Consultant are designed to ensure accountability and high quality output. They aim at achieving a balance between autonomy and control to optimize the creativity of the Firm as a whole.

Kolmans Geomatic Consultant management structure is "non-hierarchical" and the administration of Planning and surveying activities is decentralized to encourage easy and free flow of information between them areas.

Programmes are the focal point of operations. All administrative activities rotate around them. These include among others urban planning, survey and mapping, project evaluation, monitoring and GIS.

## KOLMANS GEOMATIC CONSULTANT PROFILE PHOTOS

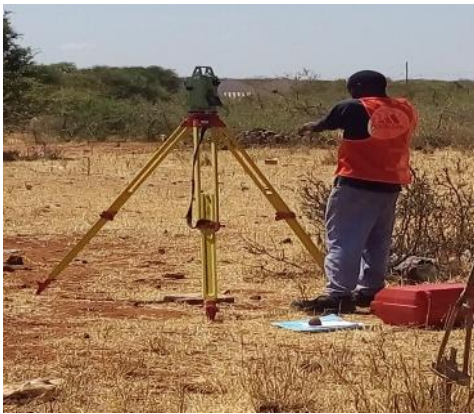


Photo1: Kolmans surveyor establishing Controls.



Photo 2: Use of Total Station in road survey.



Photo 4: Use of GPS for Detail Picking



Photo 3: Gps in RTK mode



Photo 5; Computerized Map production (Work station)



Photo 6 Topo survey



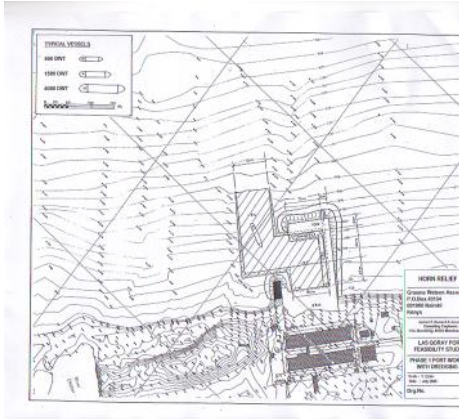
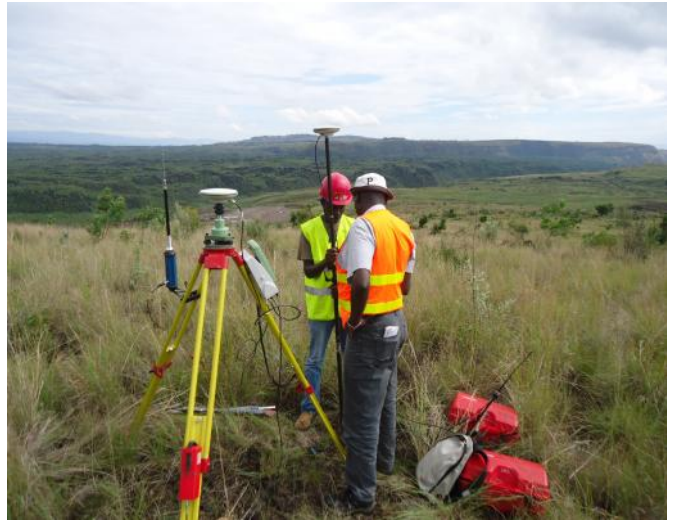


Photo 7: Topo maps

Photo 8: Kolmans surveyors at work



**Kolmans staff working on 20km transmission line from Menengai to Soilo Nakuru**



## FIRMS RECENT ASSIGNMENTS

## MAJOR TASKS UNDERTAKEN BY KOLMANS OR BY ITS STAFF MEMBERS

| Project  | Narrative description of the project  | Client names  | Location                                   |
|--|---|---|--|
| Cadastral I survey                                       | Topographical & Subdivision surveys for 7,863 acres of L.R. No. 10999 - Naivasha                | Oserian Development Company Ltd.<br>P.O Box 210, Naivasha                 | OSERIAN, NAIVASHA                          |
| Cadastral survey   | Subdivision of certificate of title No. 63901- KILIFI   | Safaricom Investment Cooperative<br>P.O Box 66827 – 00200, Nairobi        | KIKAMBALA, KILIFI                          |
| Survey and title Processing                              | Subdivision and title processing for Mavoko Town Block 3/ 43176                                 | Utumishi Investment Ltd<br>P.O. Box 3667 – 00200, Nairobi                 | MACHAKOS                                   |
| Topographical and route survey                           | Surveying a20km transmission line from Menengai crater to Soilo Substation Nakuru               | Geothermal development Authority  | MENENGAI NAKURU                            |
| Cadastral survey   | Subdivision of L.R. No. 2972 – NAIVASHA into 331 sub plots                                      | Kenton Kijabe Hills Farmers Co-operative Society<br>P.O Box 679, Naivasha | NAIVASHA                                   |
| Cadastral Survey   | Survey and Regularization of Hindi Phase II SETTLEMENT SCHEME                                   | County Government of Lamu<br>P.O. Box 74 – 80500, Lamu                    | LAMU                                       |
| Parcel Identification                                    | Survey data search for 2 acres of Nakuru Municipality Block 20                                  | Kenya Medical Supplies Agency<br>P.O. Box 47715, Nairobi                  | OFF NAKURU<br>ELDAMAVINE ROAD,<br>NAKURU   |
| Preparation of an easement deed plan                     | Preparation of an easement deed plan for a section of L.R. No. 209/6240                         | Tysons Ltd.<br>P.O. Box 40228 – 00100, Nairobi                            | NAIROBI                                    |
| Cadastral Survey   | Subdivision of Mavoko Town Block 12/ 2597 & 2881 and Mavoko Town Block 3/13685 into 27 plots    | Rigena Foundation Welfare Association<br>P.O. Box 3107, Nairobi           | MACHAKOS                                   |
| Cadastral Survey   | Subdivision of 140 acres of land in Kitengela into 504 plots in Kajiado/Kaputiei – North/ 15855 | KEMRI Retirement Benefits Trust   | KAJIADO                                    |
| Topographical and Bathymetric surveys                    | Detailed topographical surveys of Two sites for Jetty construction in Somali coast              | CARE Somali /South Sudan  | Garaad and Xafuun in Puntland Somali coast |
| Topographical surveys for oil storage depot              | Detailed topographical surveys for two service stations   | OIL COM<br>PETROLEUM LTD<br>P.o Box 76337<br>Nairobi                      | Mlolongo Athi River                        |
| Topographical surveys                                    | Detailed topographical surveys for 5 acre plot in Lovington Nairobi                             | Hon. Konchela   | Mbabane road Lavington Nairobi             |
| Topographical survey                                     | Detailed topographical survey of 900 acres IFO and Kambioss extension Refugee camp in Dadaab    | Lutheran world Federation   | Dadaab – Garissa                           |
| Route line survey and way leave acquisition of 6km Mucha | Route survey and way leaves acquisition Muha – Mole primary school in Taita Taveta              | Rural electrification Authority<br>REA<br>No.02811/1211020                | Ronge –Taita Taveta District               |

## **Other completed assignments by Kolmans**

### **(i) Cadastral survey/Title procurement**

- Harambee Co-operative sites in Westlands and Parklands-Nairobi.
- Kenya Ports Authority plots in Belle Vue-South-C Nairobi.
- Various plots around Nairobi belonging to ZamZam Limited.
- Sub-division survey of Mega Housing sites in Machakos and Kajiado districts
- Telkom properties across the country while working for Highland Surveyors.
- Postal corporation sites across the country while working for Highland Surveyors.
- TelePosta Pension Scheme properties across the country while working for Highland Surveyors.
- Subdivision survey and title preparation for Kenton Kijabe Hills farmersCo-operative land in Naivasha.
- Subdivision survey and title preparation for Rigena Foundation Welfare Association land in Machakos County.
- Subdivision survey and title preparation for Utumishi Investment Ltd land in Machakos County.
- Subdivision survey and title preparation for Njiwa Housing Cooperative Society Ltd land in Kajiado County.
- Land survey of several pieces of land belonging to several individual clients across the country.

### **(ii) Engineering/Topographical Surveys**

- Topographical survey of Edelvale Land Donholm.
- Topographical Survey of the Mariasoti trust girls school – Elgeyo
- Topographical survey of plots belonging to ZamZam Ltd.
- Topographical survey of the Esami site in Arusha Tanzania

## SCHEDULE OF THE PRINCIPAL STAFF MEMBERS

| NAME                  | POSITION                               | Qualifications  | Membership                          | Work experience |
|-----------------------|--|---|-------------------------------------|-----------------|
| Stephen O. Ambani     | Principal surveyor (Licensed Surveyor) | B.SC in Surveying University of Nairobi   | Full member MISK. Licensed Surveyor | 20yrs           |
| John Gitau wanjiku    | Cadastral Surveyor                     | B.sc in Geomatic Engineering  | MISK Full member                    | 4 yrs           |
| Belden Magetto        | Gis expert/Cartographer                | Bachelor degree in Geo information Technology (GIS), Diploma in Cartography and mapping | MISK                                | 5 years         |
| Mildred Ambani        | Cartographer                           | GIS ANalyst   |                                     | 10 yrs          |
| Patrick Ndunga Muange | Land surveyor                          | Diploma Surveying and mapping   | MISK                                | 5 years         |
| Judy Kawira           | Land Adminstrator                      | Land Administration and GIS   | MISK                                | 1 year          |
| David Njoroge         | Cartographers                          | Diploma in Cartography  | MISK                                | 5 years         |
| Sammy Matara          | Surveyor /CAD expert                   | Diploma in Land Surveying and Mapping   | MISK                                | 4 years         |
| Eric Mithamo Mitambo  | Land Surveyor                          | Bsc.in Geometric Engineering  | MISK                                | 1 year          |

Machines entail the survey equipments and the computer software in our firm.

They are as tabulated below

**SURVEY EQUIPMENTS**

| <b>Equipment</b>               | <b>Accuracy</b> | <b>Type</b>                       | <b>Quantity</b> |
|--------------------------------|-----------------|-----------------------------------|-----------------|
| Topcon GPS<br>Hipper II RTK    | 5cm             | RTK                               | 3 Receivers     |
| FOIF RTK                       | 1cm             | Both Static and<br>RTK            | 3receivers      |
| Total stations                 | 1sec            | FOIF<br>Topcon 225                | 1<br>2          |
| GPS                            | 2 m             | Garmini Vista HCX<br>Gemini Etrex | 2<br>2          |
| Theodolites                    | 1 second        | Wild T2 Electronic                | 4               |
| Wild NK 10<br>Automatic Levels |                 | Wild                              | 2               |
| EDM                            | 1 km range      | DI 1000                           | 1               |
| Prisms set                     |                 | Leica GPH 70                      | 6               |
| Steel bands                    |                 | 100m                              | 4               |
| Tribrach                       |                 | Leica                             | 6               |
| Tracking poles                 |                 | Leica                             | 6               |

**COMPUTER SOFTWARE**

| <b>Field</b>                               | <b>Software title</b>  | <b>Application area</b>   |
|--|--|---|
| GPS  | Leica Geo Office   | Downloading data and Processing   |
| GPS  | Field Guineus  | Processing Gps data in Real time  |
| Geographic Information System (GIS)<br>GPS | Arc GIS 10.3, 9.3 versions<br>Global mapper, Germini, Erdas<br>Imagine                             | Mainly for manipulating cartographic data (querying, layering and analysis, storage and retrieval of vector and Raster data |
| Draughting                                 | AutoCAD 2008,2014. Auto CAD<br>Civil 3D 2014<br>AutoCAD Land development<br>Surfer 8, Eagle point, | For computerized production of graphical works, For production of plans and contouring.                                     |
| Survey computations                        | Leica Geo office<br>Ms excel,<br>Leica survey office   | Data processing<br>Data exchange between pc and geodetic devices, coordinate editing, create and maintain code lists.       |
| Digital Image processing                   | Arc GIS 10.3, Global mapper 8.1<br>ERDAS imagine 8.6 Arc view<br>3.2,<br>Global Mapper 8.1         | Image processing to improve the aesthetic value for classification, analysis and integration into a GIS system.             |
| Digital Terrain Modeling                   | Golden software Surfer8,<br>AutoCAD Land development<br>Eagle point ,LisCAD,<br>Topo CAD           | For generation of digital elevation models,<br>Earthwork computations,<br>Contouring  |
| Secretarial and accounting                 | Office 2010, Windows XP,vista<br>Adobe 10  | Word processing, spreadsheet<br>Desktop publishing  |

|         |  |                               |
|---------|--|-------------------------------|
|         | Ms access Ms PowerPoint                            | Data processing               |
| General | Windows 7<br>Microsoft office 2013<br>Windows 2010 | For all windows applications. |

## **TRANSPORT FACILITIES**

The firm has a fleet of five (3) vehicles, including saloons, 4WDs, and Pick-ups.

All vehicles are serviceable

1. 4x4 KBS 093M Nissan Double cabin
2. 4x4 KCE 099B Toyota PRADO
3. 4x4 KAU 996 P SUZUKI GYPSY

## **CONCLUSION**

It's our belief and our earnest endeavors to perform to our best if and when given any opportunity to serve and to maintain our relationship for the mutual benefits of now and the future.