



Government of India  
Geological Survey of India  
Mission-II (Natural Resources Assessment)  
GSI Complex, 2nd Floor, C-Block  
Seminary Hills, NAGPUR-440 006

No. Mission-II/ OGP/ FS 2018-19/378

1, July 2019

## **Practicum on Collation and Synthesis of OGP data for Various Major, Strategic and Critical Commodities Belonging to All Regions of GSI for Creating Commodity wise Maps and Atlases.**

A practicum has been planned at the earliest possible date for “**Collation and Synthesis of OGP data for Various Major, Strategic and Critical Commodities Belonging to All Regions of GSI for Creating Commodity wise Maps and Atlases**” in continuation to the term review held on 28<sup>th</sup> Feb 2019 and the detailed term review comments and phasing of work suggested on 1<sup>st</sup> March 2019 in the portal with all the six Regions in respect of updation of OGP areas for various commodities viz., industrial minerals, fertilizers, precious metals and minerals, strategic & critical commodities etc., and finalization of mineral wise atlas for the entire country as suggested in the NMEP, 2016 and VAQ guidelines.

By this time, it is expected that the all the OGP data of Regions must be ready in the format as suggested by this office on 1<sup>st</sup> March 2019 might have already been completed by all the Regions. The suggestions were,

**Updation of Existing Commodity Shape files of OGPs:** 1. Synthesize and plot of all occurrences and prospects of basemetal, chromite, coal-lignite and diamond. 2. If all the prospects and commodities of these four commodities is falling under the existing respective commodities areas of OGP (prepared in 2009), then no need to create any OGP domain for these commodities. But keep the point location data with all its attributes, shape files (WGS 84) for reference by HQ., Mission-II, Nagpur and domain experts. 3. If there are any new occurrences and prospects for these four commodities situated outside the existing OGP commodity domain, then add the new OGP area of that commodity by suitably considering host lithology/ stratigraphic unit/ structure etc.

**Updation of Existing OGPs with State-wise Commodity Areas:** 1. The state-wise distribution of OGP areas of commodities, viz., Gold, PGE, Iron Ore, Manganese, Molybdenum, Tin, Tungsten and Bauxite (Eight Commodities) is listed below for reference. The areas of Tin and Tungsten needs to be considered separately with the same area figures. 2. The OGP domains for these eight commodities need to be prepared by populating all the occurrences and prospects of these commodities over 50K geological map followed by digitization of boundaries by considering host lithology, stratigraphic unit, structure, host material or combination of these. It is expected that the State-wise areas for these eight commodities will match with your data set, if there are no any addition of prospects or occurrences identified beyond the OGP areas after 2009. 3. During the creation of OGPs for these commodities, if the newly delineated OGPs are more than the data showed in the above table, then the new OGP area needs to be finalized w.r.t each commodity and sent to Mission-II, Nagpur for finalization for the entire country with the domain experts.

**Creation of OGP for Strategic and Critical Commodities:** 1. The prospects and occurrences with all its attribute data to be plotted for Fertilizer minerals (Phosphate fertilizers, Potash fertilizers, Gypsum, Pyrite etc.), Nickel, REEs, Cobalt, Antimony, Lithium, Bismuth, Graphite, Barytes, Gallium, Tellurium, Selenium

(15 commodities).2. Populate all mineral-wise point data (or DM data) and digitize the outlines by considering host rock, stratigraphic unit, host material, host structures etc., to create commodity wise new OGP areas for these fifteen commodities.

**Phase 4:** After completing the OGP work for all the above commodities, the remaining commodities as decided by the Regions can be carried out in the similar way and communicate to this office.

With this background, all the six Regions of GSI (Mission-II and Mission-III) are requested to supply the **commodity wise** information of your Region as per the following format by 4<sup>th</sup> July 2019 to decide the date and venue of practicum. **The attribute spread sheet and shape files to be shared with the regular Mission-II shared folder immediately** by RMH-IIs and RMH-IIIIs involved in the OGP updation process. Two Regions have already communicated with this office on their readiness with all the data. Delay by any Region will lead to delay of the entire output may result in serious issues as the OGP updated maps and atlases to be completely finalized and printed by September 2019.

<b>a) Introduction:</b>							
General Geological environment of a particular commodity in the referred Region. (two to four paragraphs)							
<b>b) Commodity specific Information:</b>							
Table 1: Geographic Information							
Commodity	State	OGP Area in sq. km					
Table 2: List of Major Prospects							
Name of Major Prospect	Exploration agency and year.	Block Name	Coordinates	Main Commodity	Associated commodities	Tonnage	Grade
<b>c) A Brief on Mineralization (Few paragraphs):</b>							
<b>d) List of direct Contributors:</b>							
Name of Geoscientist	Type of Contribution	Period of Association	Remarks, if any.				

  
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