



**LEGEND**

Towns or Villages: inhabited, deserted, Fort.	.....	.....	.....
Huts: permanent, temporary, Tower, Antiquities.	.....	.....	.....
Temple, Chhatra, Church, Mosque, Idgh, Tomb, Graves.	.....	.....	.....
Lighthouses, Lightship, Buoy, Lighted, unlighted, Anchorage.	.....	.....	.....
Mine, Vine, on traffic, Grass, Scrub.	.....	.....	.....
Palms, palms, other, Plantain, Conifer, Bamboo, Other trees.	.....	.....	.....
Boundary, international.	.....	.....	.....
state; demarcated, undemarcated.	.....	.....	.....
district; subdiv. tahsil or taluk; forest.	.....	.....	.....
Boundary pillars: surveyed; unlocated; village trijunction.	.....	.....	.....
Heights: triangulated; station; point; approximate.	.....	.....	.....
Bench-mark: geodetic; tertiary; canal.	.....	.....	.....
Post office: Telegraph office; combined office. Police station.	.....	.....	.....
Bunglows: dsk or travellers; inspection. Rest-house.	.....	.....	.....
Circuit house, Camping ground, Forest: reserved; protected.	.....	.....	.....
Spaced names: administrative; locality or tribal.	.....	.....	.....
Roads: metalled; according to importance; distance stone.	.....	.....	.....
unmetalled; do.	.....	.....	.....
Cart-track; Pack-track and pass. Foot-path with bridge.	.....	.....	.....
Bridges: with pier; without. Causeway, Ford or Ferry.	.....	.....	.....
Streams: with track in bed; undefined. Canal.	.....	.....	.....
Dams: masonry or rock-filled; barrages, Weir.	.....	.....	.....
River banks: shaling; steep, 3 to 6 metres; deep 6 metres.	.....	.....	.....
dry with water channel; with island & rocks; tidal river.	.....	.....	.....
Submerged rocks. Shoal. Swamp. Reeds.	.....	.....	.....
Wells: lined; unlined. Tube-well, Spring. Tanks; permanent; dry.	.....	.....	.....
Embankments: road or rail, trest. Broken ground.	.....	.....	.....
Railways: broad gauge; double; single with station; under constn.	.....	.....	.....
other gauges: do. do. with distance stone; do.	.....	.....	.....
Mineral Line; or tramway; Telegraph line. Cutting with tunnel.	.....	.....	.....
Contours with sub-features: Rocky slopes, Cliffs.	.....	.....	.....
Sand features: flat; dune; hill and dunes; surveyed; shifting dunes.	.....	.....	.....

**INDEX**

SR.NO.	DESCRIPTION	ROUTE COLOR
1	PROPOSED GAIL SV 19A HARHAD TO ARIHAT FEULS GAS PIPELINE	
2	FOREST ROUTE GAIL SV 19A HARHAD TO ARIHAT FEULS GAS PIPELINE	
2	G.M.J.J. ROUTE GAIL SV 19A HARHAD TO ARIHAT FEULS GAS PIPELINE	

SUBMITTED BY / DATE: M/s. Prasad Surveyors  
 APPROVED BY / DATE: VCS

NO.	DATE	REVISION	BY	CHKD	APPD	PROJ ENGR

**CHETAN KUMAR MISHRA**  
 CGD HEAD (GAS), CHATRA & PALAMU  
 BHARAT GAS RESOURCES LIMITED

CLIENT: **BHARAT PETROLEUM CORPORATION LIMITED**  
 1st Floor, B.S.N.L. Exchange Office Campus,  
 Chatra - 825401, Jharkhand

PMC: **M/s. VCS QUALITY SERVICES PVT. LTD.**  
 B-10, 11th FLOOR, BAUJ BHAWAN, SECTOR-03, NOIDA-201301

PROJECT: DEVELOPMENT OF CITY GAS DISTRIBUTION PIPELINE NETWORK AT CHATRA & PALAMU GA.

SURVEY AGENCY: **PRASAD SURVEYORS**  
 Flat no.-1, Mugal Nivas, Near Devdhar Hospital, Pimpri, Pune-411017.  
 Ph: 020-27416969 Email - prasadsurveyors@gmail.com

TITLE: **GAIL SV 19A STATION HARHAD VILLAGE CHATRA TO ARIHANT FUELS BAHANE, CHATRA TOWN GAS PIPE LINE**

SCALE	DRAWING NO.	SHEET NO.	REV.
1:50,000	PS/BGR/CGD/CHATRA GA/GRF-01	01 OF 1	0