



ALP CONSTRUCTION COMPANY, LIMITED.

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Project description

Completely automatical system for sampling, splitting, transporting, unloading and returning of highly abrasive bulk material (samples of each fraction will be mailed upon the request) from four/seven sites of the production unit. Samples should be transported to the plant laboratory unit via tube mail. The distance between the production unit and laboratory unit is 2800 meters.

Project location: Chelyabinsk oblast, Russia

General considerations

- 1) The system should be controlled by the operator in production unit and the data are sent to plant laboratory computer.
- 2) The software should monitor system status, report errors at all levels of sampling process, keep track of all samples taken (site #, time and date), adjust splitting process, shut down the sampling sites selectively.
- 3) The sampling equipment of certain site should shut down upon the shutdown of the main equipment at the sampling site.
- 4) There are no temperature precautions for sampled material.
- 5) The taken sample has to be identifiable by site and time /date
- 6) Receiving lab station has to have buffering system allowing to accept up to 5 samples from one line (discussible).

Specifications

	Site number	1	2	3A и 3B	4
1.	Fraction, mm	2,0	0,040-0,018	15,0-30,0 (briquette)	30,0 (briquette)
2.	Mohs scale, (hardness)	4-5	4-5	5	6
3.	Sample volume, ml	~650	~650	~650	~650
4.	Packed density +/- 10% kg/l	1.5-1.8	0.9-1.1	1.8-2.0	2.0
5.	Sample temperature °C	15-20	30-40	20-30	100-150
6.	Splitting				
	frequency, min ⁻¹	10	10	not required	not required
	weight, kg	0,2	0,2		
	splitted weight, kg	1,0	1,0		



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	Site number	1	2	3A и 3B		4
7.	Sampling site (with height) (see schema), mm	between +12,000 and +7,800	between +12,000 and +7,800.	Option «A» 4 sites between the crusher and the ladleman conveyor	Option «B» between +34,900 and +32,5700.	between +28,000 and +22,800.
8.	Inner diameter of tube in site of sampling, mm	250	250	250	250	250
9.	Tube distance available for adding the sampler of tube in site of sampling, mm	> 1000	> 1000	100-150	> 1000	> 1000
10.	Flow velocity, tons/hour	7.0	7.0	2.0	6.0	6.0
11.	Indoor tube distance, m	20	20	60	100	80
12.	Return to	screw conveyor downline	elevator downline	screw conveyor downline	crusher downline	hopper #3 downline
13.	Comments		This fraction is highly adhesive and has high fluidity, which require increased sealing and cleaning of the sampling system.	Option "A" is preferable, but if the short distance of tubing will not allow to install the sampler, option "B" will be the choice.		

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