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我们将始终坚持一贯的质量第一原则，通过与最终用户和过滤设备厂家的紧密技术合作、良好的服务创造共赢效果，为中国过滤事业踏实的做出自己的贡献！

Sand & Gravel Processing

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SAND AND GRAVEL PRODUCTION

General:

Commonly referred to as primary aggregates, sand and gravel are natural occurring resources that are widely found in river estuaries and channels, coastal dunes, flood plains and glacial deposits. From this it will be gathered that in some cases the sand and gravel is harvested in wet form using dredging facilities whilst in others in dry state using excavating equipment. The final product may be designated for construction purposes as used say in concrete production, building sand and asphalt manufacture, or for industrial applications such as found in glass manufacture. Some plants may only be concerned with sand production, whilst in others only gravel.

From these differences alone, it will be appreciated that the flowchart should serve only as a general guide.

Process Summary:

The processing of these commodities, and the equipment employed, varies considerably from plant to plant depending on factors such as the source/nature of the raw material, the scale of the operation and end use requirements. In essence, following extraction, the materials will most likely be subjected to washing and scrubbing processes to remove clay and other unwanted materials, screening to separate the sand and gravel into their respective fractions, further grading into their relevant size groups, crushing oversized gravel to a saleable size and dewatering to reduce the overall moisture content. Wastewater from the washing stages, containing soil/silt/fines, is either despatched to lagoons or recycled via settling tanks.

In some cases the sand is thermally dried, which is typically carried out in fluidised bed driers. On emergence from the driers the material is cooled, subjected to a final (dry) screening stage and packed for dispatch.

Filtration Stages:

Whilst traditional practice has been to pump the wastewater from the various washing stages to lagoons, for environmental reasons modern techniques obviate the need for this by recycling it i.e. pumping it to

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thickeners and dewatering the thickened sludge using pressure filters – specifically filter presses and filter belt presses. Chemical flocculants are added to the wastewater to assist in this task.

With respect to the actual filtration operation, as the sludge being filtered is still likely to contain highly abrasive particles, cognisance must be taken of this when selecting the filter fabric. Woven monofilaments from inherently tough polymers such as Nylon 11 and 12 are commonly used in filter press applications, whereas filter belt presses engage quite thick monofilaments. Filter link fabrics, by their nature ensure a more uniform wear pattern and hence superior abrasion resistance to woven fabrics. In addition to solid-liquid separation, dust emissions may sometimes be found in the industry, e.g. where drying is carried out and also at crushing and discharge points where dry processing is carried out. Alternatively, dust levels may simply be controlled with the use of water sprays. Where dust collection systems are employed, these may involve the use of pulse jet dust collectors.

Some potential players:

FL Smidth, Klein, Metso, Diemme, Delkor, Parnaby, Haith Industrial, Latham International, Komline Sanderson? Siemens, Phoenix Process Equipment, Flottweg, Passavant

In addition to the above equipment manufacturers it has been reported that a number of companies are offering a bespoke service, which includes servicing and replacement of all damaged/worn out parts.

Since filter media will inevitably fall into this category, the reader should be aware that business opportunities might not always be negotiable with the end user. Examples of end users are listed below:

Some end Users:

Aggregate Industries, Alfred McAlpine, Alresford Sand & Ballast, Amec, AMPL, Balfour Beatty, Bardon Aggregates, Bretts, Carillion, Cemex, Cotswold Aggregates, Day Aggregates, Ennstone PLC, Foster Yeoman, Frank Lyons, Hanson Aggregates, Harleyford Aggregates, Hills, J. Clubb, Killoughery, McAlpine Slate, Raymond Brown, RMC, Roger Bullivant, Tarmac, W.H. White