Note: the values contained in *IA*, *JA* are (usually) written in terms of the GLOBAL numbering. As we go through $k = 1 : NZ$ on process P:

1. If $IA(k) \notin P$ then $IA(k)$, $JA(k)$ and $VAL(k)$ are ignored (if `psb_matbld_noremote_`) or stashed (if `psb_matbld_remote_`);

2. If $IA(k) \in P$ and $JA(k) \notin P$ then we have a communication requirement that has to be coherent with *DESC*;

3. There actually is no need to process (entire) row by (entire) row; the order may be arbitrary (e.g.: all the coefficients associated with an element, coefficient by coefficient, etc).

4. It is convenient for performance to group a certain amount of data into a single function call;