

An Asian Journal of Soil Science



Volume 9 | Issue 2 | December, 2014 | 240-243 | ⇒ e ISSN-0976-7231 ■ Visit us : www.researchjournal.co.in

### **R**esearch Article

DOI: 10.15740/HAS/AJSS/9.2/240-243

## Effect of PBSW and biofertilizers on the solubilization of P from RP to soybean in inceptisol

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Received : 27.09.2013; Revised : 16.10.2014; Accepted : 03.11.2014

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# The field trial was conducted during *Kharif* season (2009-2010) at Post Graudate Institute Farm, Mahatma Phule Krishi Vidyapeeth, Rahuri to study the effect of PBMSW and biofertilizers (PSB and EM) on the availability of P from RP to soybean in inceptisol soil. The trail was layed out in RBD with 3 replications and seven treatments. The experimental soil was alkaline in reaction sandy loam texture, moderately high in organic C, low in available N, medium available P and high available K. The applied PBMSW was near to neutral in reaction and high EC. The total $P_{205}$ in RP was 19.17 per cent. The treatments were composed of $T_1$ -Absolute control, $T_2$ - GRD, $T_3$ - PBMSW@60m<sup>3</sup>ha<sup>-1</sup>, $T_4$ - RP+PBMSW, $T_5$ - RP+PBMSW+PSB, $T_6$ - RP+PBMSW+EM and $T_7$ - RP+EM+PSB. The results of experiments regarding soil status after harvest of soybean revealed that significant reduction in soil pH (8.30 to 8.17) and increased EC (0.34 to 0.43 dsm<sup>-1</sup>), organic carbon (0.54 to 0.73%), calcium carbonate, total P, available N, P and K. There was also increase in the uptake of N, P, K by soybean due to application of PBMSW @ 60m<sup>3</sup>.

Key words : Rock phosphate, Post biomethanated spent wash, PSB, EM, Soybean, Soil available P, P uptake

How to cite this article : Nazirkar, R.B. (2014). Effect of PBSW and biofertilizers on the solubilization of P from RP to soybean in inceptisol. *Asian J. Soil Sci.*, **9**(2): 240-243.