

Pemanfaatan Danau Bekas Galian Pasir untuk Usaha Budidaya Ikan Ramah Lingkungan Berbasis Masyarakat

(Utilization of Ex-Sand Mining Pit Lake for Community-Based Environmentally Friendly Aquaculture)

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ABSTRAK

Kegiatan ini bertujuan untuk meningkatkan kapasitas sumber daya manusia dalam program pemanfaatan danau bekas galian pasir untuk usaha budidaya ikan ramah lingkungan berbasis masyarakat. Kegiatan yang dilaksanakan di Desa Suradita, Kecamatan Cisauk, Kabupaten Tangerang ini terdiri dari pelatihan, percontohan, dan pendampingan, yang diawali dengan sosialisasi kegiatan, observasi kawasan daratan sekitar danau, dan pengukuran kualitas air danau bekas galian pasir. Sosialisasi dilakukan kepada mitra yaitu Yayasan Bratasena Pandu Nusantara dan beberapa tokoh masyarakat setempat, yang semuanya menyambut baik program tersebut, melengkapi kegiatan pemanfaatan danau bekas galian pasir untuk pariwisata yang tengah dilakukan oleh yayasan tersebut. Hasil pengukuran kualitas air yang mencakup aspek fisika, kimia, dan biologi air mengindikasikan kesesuaian untuk usaha budidaya ikan, baik pembenihan, pendederan, maupun pembesaran. Usaha budidaya ikan tersebut bisa dilakukan di darat (*land-based aquaculture*) dan di perairan (*water-based aquaculture*). Pelatihan yang diberikan berupa teknis dan manajemen usaha pembenihan dan pendederan ini diikuti oleh 30 orang peserta. Berdasarkan kepada hasil *pre-test* dan *post-test* tampak bahwa pelatihan telah meningkatkan wawasan peserta sebesar 35%. Percontohan dilakukan berupa pendederan ikan nila di karamba jaring apung yang sekarang masih berlangsung, dan sedang direncanakan pembenihan ikan tersebut di darat dan di perairan. Pendampingan dilakukan berupa kunjungan, *online meeting* dengan pengurus yayasan, dan penempatan mahasiswa penelitian di lokasi. Upaya pemanfaatan danau bekas galian pasir untuk usaha budidaya ikan ini mendapat respon positif dari yayasan dan tokoh masyarakat. Daratan sekitar dan air danau bekas galian pasir bisa digunakan untuk budidaya ikan. Masyarakat yang akan dilibatkan dalam upaya pemanfaatan danau tersebut mendapatkan penambahan wawasan setelah mendapatkan pelatihan.

Kata kunci: ikan nila, pelatihan, pendampingan, percontohan

ABSTRACT

This activity aims to increase the capacity of human resources in the program of utilizing ex-sand mining pit lakes for community-based environmentally friendly aquaculture. The activity carried out in Suradita Village, Cisauk District, Tangerang Regency consists of training, piloting, and mentoring, which began with socialization of activities, observation of the land area around the lake, and measurement of the water quality of the lake. Socialization was carried out to partners, namely the Bratasena Pandu Nusantara Foundation and several local community leaders, all of whom welcomed the program, complementing the activities of utilizing ex sand mining pit lakes for tourism that are being carried out by the foundation. The results of water quality measurements covering aspects of physics, chemistry, and biology of water indicate suitability for aquaculture, both seeding, nursery, and enlargement. The fish farming business can be carried out on land (*land-based aquaculture*) and in water (*water-based aquaculture*). The training provided in the form of technical and management of hatchery and nursery businesses was attended by 30 participants. Based on the results of the *pre-test* and *post-test*, it appears that the training has increased the participants' insight by 35%. The pilot project was carried out in the form of tilapia fish nursery in floating net cages which is still ongoing, and the fish seeding is being planned on land and in the waters. Mentoring was carried out in the form of visits, online meetings with the foundation's management, and placement of research students at the location. Efforts

to utilize the ex-sand mining pit lake for aquaculture efforts received a positive response from the foundation and community leaders. The surrounding land and water of the ex-sand mining pit lakes can be used for fish farming. The community that will be involved in efforts to utilize the lakes will gain additional insight after receiving training.

Keywords: mentoring, pilot project, tilapia, training