PROJECT SYNOPSIS

Punjab Chemicals and Crop Protection Ltd. (PCCPL) is located at Milestone – 18, Village: P.O. Bhankhapur, Tal: Dera Bassi, Dist.: SAS Nagar Punjab - 140201. The proposed expansion project is for manufacturing of pesticide and agrochemical products from 26963.3 TPA to 64974.67 TPA. As per the amended EIA Notification-2006, proposed products are covered under the Schedule-5(b) category-A (Pesticides industry and pesticide specific intermediates (excluding formulations). Proposed unit will be developed in 113300 m^2 of area already in the possession of Punjab Chemicals. The total capital cost of proposed expansion project is Rs. 196.88 Crores (Existing 136.88 Crores & Proposed 60.00 Crores). After expansion total manpower will be 700 numbers inclusive of existing 600 nos. The budget for CER is approx. Rs. 60 lakhs i.e. 1 % of project expansion cost should be allotted for development of locals and surrounding villages. Existing greenbelt of 27923 m^2 is already developed at projects site. To fulfill MOEFCC greenbelt norms of 33% of total plot area, project proponent will be additionally plant trees in 9466 m^2. Considering 90% survival rate approx. 1500 Nos. of trees will be planted inside of plant premises. Based on the TOR conditions stipulated by EAC vide letter No. J-11011/59/2001-IA.II (I) dated 26th October 2019, Draft EIA report has been prepared. The baseline environmental study was conducted within 10 km radius of the project site for the period 1st March 2019 to 31st May 2019.

UTILITIES:

Total Power requirement for proposed expansion project will be 4000 KVA (Existing 2500 kVA & 1500 KVA). It will be sourced from Punjab State Power Cooperation Limited. In existing total three numbers of boilers with capacities 6 TPH, 7 TPH & 15 TPH are available. Rice Husk is fuel used for all boilers. All boilers are having multi dust cyclone followed by wet scrubber & adequate stack height of 30 m. Existing 6 TPH boiler will be replaced with new boiler of 22 TPH. Rice Husk will be used as a fuel in this boiler. 30 meters chimney followed by Bag filter will be provided to the boiler. In existing company having 6 nos. of DG Sets with capacities of 500 KVA each. The company also proposes to install total 3 Nos. of D G set of 500 KVA (2 nos.) & 125 KVA (1 no.) each capacity as stand by. 6.5 meters height of chimney is/will be provided for each DG Sets. Total water consumption after expansion will be 400 KLD which will be fulfilled by own tube well. Noc/permission from CGWA of 260 KLD is already available and remaining 140 KLD will be fulfilled from recycle water.

MITIGATION MEASURES FOR AIR, WATER, SOIL, NOISE, LAND AND SOCIO-ECONOMIC ENVIRONMENT POLLUTION.

AIR

Only PUC vehicle will be used for the transportation. 6.5 meter height of stack will be provided to D.G. set which will be operated in case of power failure only. There will be generation of Sulphur dioxide, Nitrogen oxides, and SPM from the Incinerator. Primary and Secondary Stage wet scrubber and height of 30 m chimney will be provided. There will be generation of NOx during manufacturing from oxalic plant, which will be scrubbed in alkali scrubber 5 m height of chimney will be provided. Also scrubbers will be provided for new manufacturing plants i.e. Antracol, Zineb, Maneb, Mancozeb, Ziram, Devrinol plants with 5 m height chimney.

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Existing 6 TPH boiler will be replaced with new boiler of 22 TPH capacity of steam boiler. Rice Husk will be used as a fuel will have bag filter as air pollution controlling device & stack height of 30 m.
In existing company having 6 nos. of DG Sets with capacities of 500 KVA each. The company also proposes to install total 3 Nos. of D G set of 500 kVA (2 nos.) & 125 kVA (1 no.) each capacity as stand by. 6.5 meters height of chimney is/will be provided for each DG Sets.
Usage of respiratory protective equipment by all employees will be ensured. From air modeling study, it has been proved that the air emission from the proposed expansion project will not be increased significantly.
The company will develop greenbelt along the periphery of the proposed site and in area available outside the company premises. It shall greatly serve as an efficient barrier for prevention of air pollution and odour outside the plant premises. While making choice of plant species for green belts, weightage was given to the natural factor of bio-climate.

WATER

Total industrial Waste Water Generation will be 275.5 KLD, out of which 252 KLD from Process and 9 KLD from floor and container washing will be treated in upgraded ETP/MEE (300 KLD capacities each) followed by ATFD. Total 14.50 KLD of waste water i.e. blow downs from the boiler and cooling tower will be treated in the proposed RO (20 KLD). RO rejection (01.50 KLD) will be taken to MEE. 13 KLD of RO permeate will be recycled in utilities. Total 353 KLD water (i.e. 13 KLD RO Permeate, 25 KLD from STP treated and 315 KLD MEE treated) will be recycled. Thus there will be a Zero Liquid Discharge (ZLD). Sewage quantity of 25 KLD will be generated and it shall be treated in new STP of 40 KLD capacity. Treated water will be reused. The unit has provided garland drain around the storage tank of raw materials and also provided central drain line connected to the collection pit to avoid contact of any accidental spillages with the domestic and storm water drain. Online monitoring system already provided. Private Water Tankers will be arranged if required. Wastage of water is/will be strictly avoided. Awareness for conservation of water is/will be spread to the labors.

SOIL

Generated top soil will be stored separately within plant premises. Construction waste will be categorized in to recyclable and non-recyclable and stored separately. Recyclable construction waste will be sent for recycling and non-recyclable waste will be sent to authorize dealers for disposal. Debris will be stored separately and will be reused within premises for land leveling in due time. Top soil will be reused within premises for green belt plantation.

Solid/hazardous waste generated from the process, will be properly handled with adequate solid/hazardous waste management facilities. Proper storage area will be provided with lining to avoid leakage. Closed collection container, storage and transportation of all hazardous wastes within the plant and outside. Care will be taken to avoid spillage/leakage of fuel. Proper spill control measures will be implemented. Regular road sweeping will be done for recovery of dust from the spilled areas within the plant boundary. Hazardous waste will be handled/ disposed

according to the Hazardous and Other Waste (Management, and Transboundary Movement) Rules, 2016. STP Sludge will be will be used as manure within the premises.

NOISE

Vibration pads will be installed for major construction equipment's. High noise generating activities will be avoided during night-time and their frequency will be minimized to avoid continuous noise exposure. Provision of ear muffs and ear plugs to prevent continuous noise exposure risk to labourers working on site. Maintenance & lubrication of vehicles and equipment's will be carried out regularly. DG set will be equipped with acoustic enclosures.

Regular maintenance & lubrication of utilities and equipment's is been carried out and same will be continued. Operator shift rotation is/will be done for plant operation. Less noise creating machineries and motors is/will be used for manufacturing process. Provision of ear muffs and ear plugs to prevent noise exposure risk to employees working on site.

LAND

The land required is under the possession of Punjab chemicals which is already demarcated as industrial use. Greenbelt area is/will be developed which result in beneficial impacts on land cover of the project area.

SOCIO-ECONOMIC ENVIRONMENT

The requirement of skilled/unskilled manpower during operation is/will be met from nearby villages as far as possible. After expansion total manpower will be 700 numbers inclusive of existing 600 nos.

CORPORATE ENVIRONMENT RESPONSIBILITY (CER)

The budget for CER is approx. Rs. 60 lakhs i.e. 1 % of project expansion cost will be allotted for construction/ renovation of schools, upgrading medical facilities, providing safe drinking water facility for locals and surrounding villages. This will be a positive socio-economic development for the region and general upliftment of standard of living in the region.

CONCLUDING REMARKS

Considering the probability of likely impacts, the proponent has planned adequate mitigation measures and EMP. Further, the proponent also undertakes CER activities which shall have beneficial impacts on the socio-economic environment. Measures like energy conservation and greenbelt development are also noteworthy. Looking to the overall project scenario, employment potential and allied development plans; it has been noticed that the proposed expansion project would significantly help in the improvement of the society and nation at large.