



State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment, Forest & Climate Change)

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No: 2835 /SEIAA/2019

Date: 28.3.19

To,
Executive Engineer,
Narmada Development Authority
Division No. 14, Thikri
District Barwani (MP)- 451660

Sub Case No.5636/2018: Prior Environment Clearance for Naglawadi Micro Lift Irrigation Scheme Lifting Point : River Narmada (13.68 cumec of water will be lifted) near Chichali Village Tehsil- Kasrwad District- Khargone (MP); Cultivable Command Area – 47000 ha, Gross Command Area – 84000 ha ; by Executive Engineer, Narmada Development Authority Div No. 14, Thikri District Barwani (MP)- 451660 E-mail: eenvdadiv14@gmail.com Mob no. – 9826500348 Env. Consultant : R.S. Envirolink Technologies Pvt. Ltd., Gurgaon

Ref: Your application dtd. 05.01.18 received in SEIAA office on 12.01.2018

With reference to the above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA Report, ppt. and additional clarifications furnished in response to observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- (i) The project is a lift irrigation scheme; consisting of lifting water from Narmada river and distribution through a pressurized piped system to cultivators for irrigation during Rabi season. Water will be supplied upto 2.5 ha chak size under adequate pressure (minimum 20m head) for drip/sprinkler system to be installed by cultivators.
- (ii) Nagalwadi micro lift scheme will be lifting water from river Narmada and is designed to carry with a design discharge of 15 cumecs. The Scheme is planned to irrigate 47,000 ha of Culturable Command Area (CCA) spread in 104 villages:
 - a. 39 villages of Segaoon tehsil of Khargone district
 - b. 21 villages of Khargone tehsil of Khargone district,
 - c. 4 villages of Thikri tehsil of Barwani district
 - d. 42 villages of Rajpur tehsil of Barwani district
- (iii) The Project consists of following Components:
 - a. Pumping Stations (5)
 - b. Rising mains (5)

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Issued vide letter no. dated

Case No.: To be quoted in registered cases for correspondence

- c. Distribution Network (MS/DI/HDPE) up to 2.5 ha chak
d. Flow & Pressure Control Valves, Air valves
e. Power Transmission Line
- (iv) As per EIA Notification of September 2006 and subsequent amendments, Irrigation Projects, listed at item 1(c) of Schedule, having culturable command area (CCA) greater than or equal to 10,000 ha and less than 50,000 ha are considered as category B1 project; and are therefore be appraised by the SEIAA
- (v) The present project is River Valley projects involving culturable command area of 47000 ha falls under B1 category; and have been mentioned at S No. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC
- (vi) There is no wildlife sanctuary, National park (DFO letter dtd. 02.01.18) or interstate boundary (PWD letter dtd. 09.01.18) within 10 km of the project area, hence general conditions are not attracted.
- (vii) For the construction of pump-houses, sub-stations, valve chambers and staff quarters; land would be required permanently. Permanent land requirement has been worked out as 4 ha, which is government/private land; there is no forest land requirement for permanent use.
- (viii) 132 KV dedicated transmission line is required to bring power to the three pump-houses. Power Line will be brought from 400KV Julwania substation; total length will be 50 Kms and 350 towers will be erected along the road for the purpose.
- (ix) Further for Pump house 4 and 5, 33 KV dedicated transmission line will be required; total length is calculated as 30 kms and 750 two pole structures will be erected. Transmission line routes are planned in a manner so that these towers will not be erected on forest land.
- (x) The pipe shall be laid 1.00 m below average ground level and land will be restored immediately on completion of the work, therefore, no land for lying of pipes shall be acquired permanently. Wherever, the pipeline will be passing through private land, temporary land acquisition will be done as per the applicable law. Total temporary private/ govt. land requirement is worked out as 119.30 ha.
- (xi) Public Hearing was conducted on 5th January 2019 at Gram Panchayat Bhawan, Village Julwaniya, Tehsil Rajpur, District Barwani and on 8th January 2019 at Gram Panchayat Bhawan, Village Segaoon, Tehsil Segaoon, District Khargone. Meeting was chaired by Tehsildar (representative of Additional District Magistrate of Barwani district and Additional District Magistrate of Khargone district in respective districts Some issues regarding shortage of water in the region, economical self-independence of farmers and consumption of electricity, plantation should be taken were raised during the public hearing which were readdressed by PP.
- (xii) **Approximately 12.8 cum will be generated from the project. For management of muck PP has proposed the following:-**
- The material dug out from the land of private cultivators will be spread on the cultivator's field after their consent.
 - The extra muck shall be laid in the undulating area of the connected villages with the consent of concerning Gram-panchayat or Janpad Panchayat.
 - A provision of Rs150 lakh has been kept under this head.

(xiii) **Following mitigation measures shall be adopted for waste management**

- Construction and demolition waste will be handled in line with the guidelines for handling such wastes given in Construction & Demolition Waste Management Rules, 2016.
- Contractor shall be responsible for segregation of construction and demolition waste and handle the same in consultation with local authority.
- Waste construction material shall be recycled as far as possible and remaining disposed off at designated site in consultation with the local authority.
- Contractor will ensure that there is no littering or deposition of waste so as to prevent obstruction to the traffic or the public ordains.
- Any hazardous waste generated at site such as waste oil, used batteries, empty barrels/containers/liners contaminated with hazardous chemicals/wastes and contaminated cotton rags or other cleaning materials, etc. shall be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- Municipal Solid Waste generated from labour camps shall be disposed off at a designated place in consultation with the local authority.

(xiv) The scheme is designed for 51.74 MW power requirements. PP has committed, not to exceed 51.74 MW of power requirement during the life of project.

(xv) PP has proposed plantation in 150 hectare in several patches in non forest waste land will be done subject to availability of suitable land. The species to be planted will be chosen in consultation with local villagers and will be site specific. These plantations will be maintained for five years & will be handed over to Panchayat for management. The plantations may be done by forest wing of NVDA, forest department or local Panchyats. A provision of Rs. 150 lakh has been made for the same.

(xvi) **For Improvement in Public Health PP has proposed following:-**

- One Ambulance with all the basic Medicare facilities a construction site.
- Improvement in existing health centers
- Health Awareness/ Vaccination Camps
- One Ambulance cum testing mobile vans for villagers in command area . Provision of Rs. 125 lakh has been kept for Public Health Delivery System;

(xvii) PP has submitted that the budget allocated for vaccination camp amounting Rs. 30.lakh will be given to Anganwadi for integrated child development schemes.

(xviii) **Preventive Measures for Corrosion of Pipeline**

- Anti Corrosion measures.(epoxy paint internally and guniting at outside is proposed where the pipeline is underground. Pipeline exposed to the atmosphere will be painted by epoxy paint both inside and outside to prevent the corrosion)

(xix) **Management of Pipeline Leakage and Bursting**

- The entire system is managed by SCADA (Supervisory Control and data Acquisition)
- To prevent back pressure in case of electricity failure, depending upon surge analysis, single or combination of protection devices like One Way Surge Tank, Air Cushion Valves and Standing Pipes shall be used.

- If any leakage/theft/bursting occurs; valves will automatically close. In the worst case scenario, only residual water present in the reach would drain off from the pipeline. Impact will be local flooding
- A provision of two chassis mounted dewatering pumps of adequate capacity has been made for the purpose of clearing the water logged areas during emergency

(xx) **Benefit of the project:** Water for irrigation improved quality of life, Marginal activities and jobs during construction phase, Employment opportunities to locals during operation phase with increased income of farmers.

Based on the information submitted at Para i to xxabove and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 527th meeting held on 05.03.2019 and decided to accept the recommendations of 342nd SEAC meeting held on dtd 18.02.19.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments for the proposed Prior Environment Clearance for Naglawadi Micro Lift Irrigation Scheme Lifting Point : River Narmada (13.68 cumec of water will be lifted) near Chichali Village Tehsil- Kaswad District- Khargone (MP); Cultivable Command Area – 47000 ha, Gross Command Area – 84000 ha ; by Executive Engineer, Narmada Development Authority Div No. 14, Thikri District Barwani (MP)- 451660 subject to the compliance of the Standard Conditions and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

1. The inputs given by the participants during Public hearing should be properly redressed. All the promises and assurances made during the public hearing shall be fulfilled completely by the water resources department GoMP. The implementation of R & R Plan to be closely monitored to ensure that all project affected families (PAFs) get adequate & timely compensation.
2. Besides the agricultural land, the rehabilitation of public buildings, infrastructures, monument etc. falling in the submergence area should also be included in the rehabilitation plan.
3. A monitoring Committee for R & R shall be constituted which must include representatives of project affected persons including form SC/ST community and at least a woman beneficiary.
4. A grievances redress mechanism is to be devised by NVDA and put in place so that aggrieved PAFs and other stakeholders may approach the Authority easily for resolution of any dispute/conflict.
5. The implementation of Local Area Development Plan (LADP) to be closely monitored.
6. This being a seasonal stream/ river, a minimum environmental flow of 30 % in monsoon season should be released for downstream users.
7. Proposed Bio-diversity Conservation & Management Plan in EMP report should be implemented with State Forest Department. The allocated budget for this purpose shall be fully utilized and not to be diverted for any other purpose.
8. The catchment Area Treatment (CAT) Plan as proposed in EMP report shall be strictly implemented in consultation with Madhya Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation for CAT Plan implementation shall be fully utilized and not to be diverted for any other

purpose. Catchment Area Treatment Plan as has been proposed should be completed in five years.

9. To enhance the natural environmental quality & aesthetics of project site, greenbelt, as proposed in the EMP Report shall be undertaken in project area. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
10. Fishery conservation & management plan as proposed shall be implemented in consultation with the Fisheries Department, Government of Madhya Pradesh.. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
11. Occurrence of stagnant pools/slow moving water channels during construction and operation of the project may provide breeding source for vector mosquitoes and other parasites. The river should be properly channelized so that no small pools and puddles are allowed to be formed. Even after taking precaution, due to unforeseen situations, breeding of mosquito and resultant malaria or mosquito borne diseases can increase. If such a situation arises, it will be the responsibility of project authorities to take all steps i.e. residual insecticidal spray in all the project area and surrounding 3 km. Area keeping the flight range of mosquitoes in consideration. Also medical assistance to be provided to the affected people at the cost of the developer and appropriate health benefits may be initiated with the help of State Health Department.
12. Regular monitoring of water quality (Surface and Ground) including heavy metals shall be undertaken in the project area and around the project area to ascertain the change, if any, in the water quality due to leaching of contaminants, if any, from the increased use of chemical fertilizers and pesticides.
13. Conjunctive use of surface water shall be planned to check water logging as well as to increase productivity.
14. Consolidation and compaction of the generated muck should be carried-out in the muck dumping site. The entire muck should be utilized for service road and inspection path, formation of embankment, filling trenches, land levelling and construction of CD works etc. The muck disposal sites shall be reclaimed /restored with vegetation once the capacity is utilized.
15. PP should provide the budget allocated for vaccination camp amounting Rs. 30.lakh to Anganwadi for integrated child development schemes as committed.
16. The periodical soil health shall be verified in command area during operation phase to ensure the maintenance of soil fertility.

B. Specific Conditions as recommended by SEAC

(A) PRE-CONSTRUCTION PHASE

17. During any construction/pumping station erection, curtaining of site should be carried out to protect nearby areas.
18. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
19. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
20. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas.
21. For dust mitigation measures following measures shall be adopted:

- Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
 - No excavation of soil shall be carried out without adequate dust mitigation measures in place.
 - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
 - Wind-breaker of appropriate height minimum 03 meters shall be provided.
 - Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
 - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
 - No uncovered vehicles carrying construction material and waste shall be permitted.
 - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
22. PP will obtain other necessary clearances/NOC from respective authorities.
23. Provisions shall be made for the housing of construction/ pumping station erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

(B) CONSTRUCTION PHASE

24. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
25. Fire extinguishers should be provided on site during construction/ plant erection period.
26. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF&CC/CPCB/MPPCB.
27. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
28. CAT shall be executed and completed prior to the water filling in the dam.
29. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
30. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
31. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
32. Plantation in patches in suitable land all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

33. The existing and proposed land use plan of the project is as follows:

Land use/ Land cover Classes	Area (%)
Deciduous Forest	2.32
Scrub Forest	4.32
Scrub Land	9.84
Agriculture/ Fallow Land	80.1
Mining	0.43
Settlement	0.51
Water body	2.49
Total	100.00

34. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
35. Waste oil & grease generated from the pumps and standby DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
36. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

37. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
38. The Project consists of five Pumping Stations (5) and five Rising mains (5).
39. In the post-irrigation phase, farmers tend to use more fertilizers and pesticides these may result in soil and water pollution. Hence, it should be essential to use the fertilizers and pesticides in a judicious manner without causing soil and water pollution. Awareness program shall be conducted and experts should interact with the local people who will guide them on the quantity and proper application of fertilizer and Pesticides.
40. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
41. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
42. Use of Solar Energy with LED light arrangement in the pump house, site, office building should be promoted in the project area where ever possible.
43. An energy audit for energy conservation can be performed in pump site, office building, to reduce energy expense and carbon footprints.
44. All leakages will be cleaned out in the pump house to prevent wastage of water with the prescribe procedures in the regular intervals.
45. The public toilets should be made in optimum numbers so that entire command area and site should be open defecation free (ODF).
46. The project authorities should comply with the provisions made in the Water (Prevention & control) of Pollution Act 1974, and amended, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, etc.

47. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
48. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
49. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

(D) ENTIRE LIFE OF THE PROJECT

50. A total budgetary provision of Rs. 1248.00 Lakh has made for Environmental Management Plan, out of which 450.00 Lakhs for Biodiversity Conservation Plan and 150.00 lakhs is for Greenbelt Development
51. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
52. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
53. All commitments pertaining to public hearing shall be mandatory on part of PP.
54. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
55. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
56. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
57. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
58. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed project shall require a fresh Environment Clearance.

Standard Conditions:

1. Consolidation and compilation of the muck should be carried-out in the muck dump sites and the dump sites should be above high flood level. Restoration of construction area including dumping sites of excavated materials shall be ensured by leveling, filing up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.
2. The Regional Office of MoEF, GoI, Bhopal & MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact

Assessment Report, Environmental Management Plan and Monitoring Plan should be given to Regional Office, MoEF, GoI, Bhopal & MPPCB. The project proponent shall provide full cooperation during their inspection and all required documents/data to the officials.

3. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, GoI, Bhopal, MPPCB within six months.
4. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically.
5. The Project Proponent has to submit half yearly compliance report of the stipulated terms and conditions in the Prior Environmental Clearance, including the results of monitored data in hard and soft copy to the Regulatory Authority, respective Zonal Office of CPCB and the SPCB and Regional Office of MoEF, GoI at Bhopal on 1st June and 1st December of each calendar year.
6. Details of land holding of project affected persons whose land is being acquired shall be submitted to MoEF&CC, GoI, Regional Office. The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 or as per the State Rehabilitation and Resettlement Policy, whichever is more beneficial to the project affected villages. The R & R issues shall be completed before commissioning of the project. In case latest Act of 2014 is applicable, the same Act is to be followed.
7. The MP SEIAA or any other competent authority reserves the right to alter/modify or add additional, safeguard measures subsequently, if found necessary and to take action, including revoking of the clearance under provisions of the environment (Protection) Act 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
8. The Prior Environmental Clearance letter is valid for a period of 10 years from the date of issue of this letter for commissioning of the project.
9. A copy of the Prior Environmental Clearance issued by MP SEIAA shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat / Zila Parishad / Municipal Bodies as applicable, local NGO, if any, in addition to the associated Government Department from whom any suggestion / representations were received while processing the proposal and those responsible for controlling the proposed project, who in turn has to display the same for 30 days from the date of receipt. The clearance letter shall also be put on website by the project proponent.
10. State Pollution Control board / committee shall display a copy of the clearance letter at the regional office, district industries centre and collector's/tehsildar's office for 30 days.
11. The Project Proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at

www.mpseiaa.nic.in and copy the same shall be forwarded to the Regional Office, MoEF&CC, Gol, Bhopal.

12. After 5 years of the commissioning of the project a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency to be decided in consultation with the Ministry / authority.
13. A multi disciplinary committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the state environment ministry as early as possible. A panel may be proposed by the PP and submitted to ministry. The Project Proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.
15. Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
16. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days from the date of issue, as prescribed under Section 10 of the National Green Tribunal Act 2010.

Endt No. / SEIAA/ 2019

Dated 28.3.19

Jitendra Singh Raje
(Jitendra Singh Raje)
Member Secretary

Copy to:-

- (1). Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, Distt- Khargone (M.P.).
- (5). The Collector, Distt- Barwani (M.P.).
- (6). The Principal Chief Conservator of forest, Ground floor Satpuda Bhawan, Bhopal (M.P)
- (7). Director, I.A. Division, Monitoring Cell, MoEF, Gol, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (8). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (9). Guard file.

Sanjeev Sachdev
(Dr. Sanjeev Sachdev)
Officer-in-Charge