’’Apele Romane" National Administration

Buzau – Ialomita Water Basin Administration

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Cod F-AA-1Code F-AA-1 Nr. No. 13124/ DI/. 13124 (DI) dated 22.08.20182018

**AVIZ DE GOSPODARIREA APELOR WATER RIGHTS PERMIT**

**Nr ...... din ... A /r....Pf no 146 dated 22.08.20182018**

privind obiectivul de investitie: “Fabrica de reciclare uleiuri uzate, Municipiul regarding the investment facility: **"Waste Oil Recycling Plant, Oltenita MunicipalityOltenita, judetul Calarasi”, Calarasi County"**

Codul cadastral al bazinului hidrografic : XIV-1.000.00.00.00.0, BH Dunare Cadastral code of the catchment area: XIV-1.000.00.00.00.0, B.H. Danube

**DATE GENERALEGENERAL DATA**

Permit applicantSolicitantul avizului si beneficiaral SC GREEN OIL AND LUBES SRL de investitie : and investment beneficiary:

GREEN OIL AND LUBES SRL, Bucharest, 1st District, str.AP Cehov, nr.2, A.P. Cehov, nr. 2, camera 1, Etaj 3, Ap.8 Tel.camera 1, etaj 3, ap.8,

tel. 0729/120.153 0729/120 153

Email: daniela.coman@greenoilandlubes.eu CUE RO 34450328;E-mail: daniela.coman@greenoilandlubes.eu

VAT no.: RO 34450328; registration no.J40/5301/2015 J40/ 5301/2015

Proiectant de specialitate: Specialty designer: SC SMART ECOLOGIC CONSULTING SRL SC SMART ECOLOGIC CONSULTING SRL,Bucuresti, Aleea Tebea nr.2, B1.103, scara 3 Etaj 1, Ap. 34,Sector 4 Bucharest, Aleea Tebea nr.2, Bl.103, scara 3, etaj 1, ap. 34, 4th District

Site lAmplasamentul lucrarii:location: residential area of Oltenita Municipality, Calarasi County

Situatia juridica a terenului:Legal situation of the plot: the plot is managed by the beneficiary SC GREEN OIL AND LUBES SRL, according to the Concession Contract concluded with Oltenita Municipality

Situatia inundabilitatii terenului:Floodability of the plot: Zoa inundabila floodable area

**CARACTERIZAREA ZONEI DE AMPLASARECHARACTERIZATION OF THE LOCATION AREA**

Terenul propus pentru investitie se afla in afara zonei construite a localitatii, la o distanta de peste 770 de metri fata de primele locuinte, neafectand aria rezidentiala prin prezenta constructiilor industrial si activitatile curente.Plot proposed for the investment is located outside the built-up area of ​​the locality, over 770 meters far from the first dwellings, not affecting the residential area by the presence of industrial buildings and current activities.

Suprafata de teren aferenta obiectivului este de 178.846 m2.Surface of ​​the facility is 178,846 m2.

Accesul la terenul supus investitiei, se va face prin drumul national - DN 4 - pana in zona portului Oltenita, in continuare pe strada Portului pe o distanta de aproximativ 970 de metri (drum modernizat).PlotPlot subject to the investment facility will be reached by the national road - DN 4 - to the Oltenita port area, further on Portului Street, about 970 meters far (modernized road).

Din strada Portului, accesul se face pe un drum nemodemizat de aproximativ 200 de metri, drum, pe care beneficiarul il va modemiza.From Portului Street, the access is ensured on an old road (length of about 200 meters). This road will be modernized by the Beneficiary.

**SITUATIA EXISTENTA CURRENT SITUATION**

**Situatia hidrologica actualaCurrent hydrological situation**

**Studiu hidrologic privind scurgerea maximaHydrological study on maximum leakage**

Determinarea elementelor scurgerii maxime necesare calculelor hidraulice sa realizat prin Studiul hidrologic in zona municipiului Oltenita - realizat de Institutul National de Hidrologie si Gospodarire a Apelor (Confirmarea de comanda nr.549/13.06.2017 ) .MMaximum leakage elements required for hydraulic calculations were determined by the Hydrological Study in the area of ​​Oltenita Municipality. It was conducted by the Hydrology and Water Management National Institute of (Order acknowledgment no.549/13.06.2017).

Datele hidrologice privind scurgerea maxima sunt urmatoarele : Hydrological data on maximum leakage are, as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Nr.** **No.**  **Crt.** | **Raul - Sectiunea** **River - Section** | **F (km** **2** **)** **F (km2)** | **Qmaxi%(mc/s) Qmax% (m/s)**  **H max i% (mdMN) Hmax i%** **(mdMN)** |
| 1. 1. | Fluviul Dunarea, aval confluenta raulDanube River, downstream the confluence of the | **692.900** **692.900** | **16.600** **16.600** |
|  | Arges Arges River |  | **18,26** **18.26** |
| **2.** 2. | Rau Arges, amonte confluenta Fluviul Arges River, upstream the confluence of the DunareaDanube River | **12.550** **12.550** | **1.600** **1.600** |
|  |  | - - |

Pe baza masuratorilor realizate la statia hidrometrica 01 tenif:a de pe fluviul Dunare (cu raportarea la ”0” mira) sa determinat nivelul maxim al apei corespunzator debitului cu probabilitatea de depasire p = 1% - in sistem de referinta Marea Neagra 75:Based on the measurements made at the Oltenita hydropower station on the Danube River (with reference to "0" rod), it was determined the maximum water level corresponding to the flow with the probability of exceedance p = 1% - in the Black Sea 75 reference system:

**Hmaxl %Dunare = 18,26 mdMNS = 18,12 mdMN. Hmax 1% Danube = 18.26 mdMNS = 18.12 mdMN.**

**Rezultatele calculelor hidraulice Results of the hydraulic calculations**

Pe baza calculului hidraulic pe raul Arges (ce a condus la determinarea nivelurilor maxime la viitura cu p = 1% in cele noua sectiuni de calcul) si a nivelului maxim la viitura cu p = 1% pe fluviul Dunare ( Hmaxl %Dunare = 18,26 mdMNS = 18,12 mdMN - fumizat de INHGA prin Studiul Hidrologic nr. 549/2017, elaborat pentru aceasta documentatie) a rezultat ca amplasamentul obiectivului de investitie este in zona inundabila.Based on the hydraulic calculation on Arges River (which led to the determination of maximum high-water marks with p = 1% in the nine computational sections and high-water marks with p = 1% on the Danube River (Hmax 1% Danube = 18, 26 mdMNS = 18.12 mdMN - supplied by INHGA by the Hydrological Study no. 549/2017, developed for this documentation), it was determined that the location of the investment facility is within the floodable area.

**I. I. Flooding that can be caused by Arges River**

Rezultatele calculelor hidraulice pe raul Arges pentru debitul cu probabilitatea de depa§ire de p = 1% sunt urmatoarele:Results of the hydraulic calculations on the Arges River for the flow with the exceedance probability of p = 1% are the following:

(In calculul hidraulic pe raul Arges, conditia limita aval a constituit-o nivelul apei pe fluviul Dunarea - corespunzator debitului cu probabilitatea de depasire de p = 1% (16.600 mc/s), adica Hmaxl%Dunare = 18,12 mdMN75).(In the hydraulic calculation on the Arges River, the downstream limit-condition was the water level on the Danube River - corresponding to the flow with the exceedance probability of p = 1% (16,600 mc/s), i.e. Hmax 1% Danube = 18,12 mdMN75).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Profil** **Cross-profile**  **transversal** | **Kilometraj** **Mileage counter** | **Debit** **Flow**  **(p = 1%)** **(p = 1%)** | **Nivel maxim (P = 1%)** **Maximum level (P = 1%)** | **Viteza** **Speed** | **Latimea** **Width**  **benzii** **inundabile** **floodable lane** |
| **[m]** **[m]** | **[m** **3** **/s]** **[m** **3** **/ s]** | **[md IVIN 75]** **[md IVIN 75]** | **[m/s]** **[THX]** | **[m] 7** **[m]** |
| **PT 9** **PT 9** | **4930** **4930** | **1600** **1600** | **19.56** **19.56** | **2.01** **2.01** | **189.16** **189.16** |
| **PT 8** **PT 8** | **4126** **4126** | **1600** **1600** | **19.38** **19.38** | **1.32** **1.32** | **498.98** **498.98** |
| **PT 7** **PT 7** | **3535** **3535** | **1600** **1600** | **19.24** **19.24** | **1.47** **1.47** | **924.32** **924.32** |
| **PT 6** **PT 6** | **2934** **2934** | **1600** **1600** | **19.06** **19.06** | **1.36** **1.36** | **1115.53** **1115.53** |
| **PT 5** **PT 5** | **2328** **2328** | **1600** **1600** | **18.81** **18.81** | **1.53** **1.53** | **723.59** **723.59** |
| **PT 4** **PT 4** | **1536** **1536** | **1600** **1600** | **18.53** **18.53** | **1.6** **1.6** | **425.77** **425.77** |
| **PT 3** **PT 3** | **933** **933** | **1600** **1600** | **18.3** **18.3** | **1.77** **1.77** | **268.48** **268.48** |
| **PT 2** **PT 2** | **535** **535** | **1600** **1600** | **18.21** **18.21** | **2A7** **2.17** | **346.83** **346.83** |
| **PT 1** **PT 1** | **0** **0** | **1600** **1600** | **18.12** **18.12** | **0.72** **0.72** | **948.42** **948.42** |

KOTA: Secfiunile marcate din label sunt in zona amplasamentului

NOTE: Sections marked on the table are within the area of ​​the investment facility.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Profil** **Cross-profile** | **Nivel maxim (P = 1%)** **Maximum level (P = 1%)**  **[mdMN75l** **[mdMN75l** | **Cota dig mal stang** **Dike elevation** **of the left bank**  **fmdMN75]** **fmdMN75]** | **Cota dig mal drept** **Dike elevation** **of the right bank**  **[mdMN75l** **[mdMN75l** | **Garda dig mal stang** **Dike freeboard** **of the left bank**  **[m]** **[m]** |
| **PT 9** **PT 9** | **19.56** **19.56** | **22,03** **22.03** | **22,18** **22.18** | **2,47** **2.47** |
| **PT 8** **PT 8** | **19.38** **19.38** | **22,15** **22.15** | **19,99** **19.99** | **2,77** **2.77** |
| **PT 7** **PT 7** | **19.24** **19.24** | **23,60\*** **23.60 \*** | **19,76** **19.76** | **4,36** **4.36** |
| **PT 6** **PT 6** | **19.06** **19.06** | **23,63\*** **23.63 \*** | **19,84** **19.84** | **4,57** **4.57** |
| **PT 5** **PT 5** | **18.81** **18.81** | **23.10\*** **23.10 \*** | **19.67** **19.67** | **3,43** **3.43** |
| **PT 4** **PT 4** | **18.53** **18.53** | **19,91** **19.91** | **20,07** **20.07** | **1,38** **1.38** |
| **PT 3** **PT 3** | **18.30** **18.30** | **19,84** **19.84** | **19,66** **19.66** | **1,54** **1.54** |
| **PT 2** **PT 2** | **18.21** **18.21** | **19,88** **19.88** | **19,69** **19.69** | **1,83** **1.83** |

\* - dig de protectie NH1 aferent canalului Dunare - Bucuresti (actualmente in conservare). \* - NH1 safety dike of the Danube channel - Bucharest (currently under preservation).

Rezultatele calculelor hidraulice demonstreaza ca incinta viitorului obiectiv nu este pusa in pericol la viiturile de pe raul Arges, avand debite cu probabilitatea de depasire p = 1% (garda digului mal stang rau Arges raportata la Hmaxl% Arges fiind cuprinsa intre 1,38 m ^ 1,83 m. pe zona amplasamentului viitorului obiectiv).Results of the hydraulic calculations show that the area of the future facility is not endangered by the high-waters of the Arges River, because its flows have a exceedance probability of p = 1% (dike freeboard of the Arges River left bank with respect to Hmax1% Arges falling within 1.38 m ÷ 1.83 m on the site of the future facility).

**II. II.** **Flooding that can be caused by Danube River**

Intersectand modelul numeric al terenului cu planul determinat de nivelul apei corespunzator debitului cu probabilitatea de depasire p = 1% pe fluviul Dunare (Ql% = 1600 mc/s) si anume : Hmaxl%Dunare = 18,12 mdMN75 - rezulta ca intreaga incinta a viitorului obiectiv este inundabila.By ByBy intersecting the digital model of the plot with the plan defined by the water level corresponding to the flow exceedance probability of p = 1% on the Danube River (Q% = 1600 m/s), namely: Hmax1%Danube = 18,12 mdMN75, it results that the entire site of the future facility is floodable.

Intrucat majoritatea cotelor terenului din incinta viitorului obiectiv:: se situeaza in mtervalul 16,50Since most of the elevations of the plot to be covered by the future facility are within the range of 16,50 ÷17,00 mdMN75 - rezulta ca la .ylitura "cdA 17.00 mdMN75, it results that the plot in question is under a water layer falling within the range: 1,12 + 1,62 m at the high-water with probabilitatea de p = 1% pe fluviul Dunare, terenul in cauza se afla sub o coloana de apa cuprinsa in intervalul: 1,12 + 1,62 m.probability of p = 1% on the Danube River.

In prezent, zona aferenta investitiei este libera de constructs si nu este racordata la reteaua de alimentare cu apa si canalizare.**Currently, the area related to the investment facility is not covered by buildings and is not connected to the water supply and sewerage networks.**

NECESITATEA SI OPORTUNITATEA INVESTITIEI**REQUIREMENT AND OPPORTUNITY OF THE INVESTMENT**

Investitia are ca scop realizarea unei unitati de procesare a cca.Investment aims at building an unit processing around 66.000 t/an de reziduri periculoase si toxice, producand lubrifianti de inalta calitate. 66.000 tons per year of hazardous and toxic waste, producing high quality lubricants.

ELEMENTE DE CORELARE SI COORDONARE**CORRELATION AND COORDINATION ELEMENTS**

- - Urban Planning Certificate no. 268/22.11.2016, emis de primaria Municipiului Oltenita;268/22.11.2016 issued by the Oltenita City Hall;

- - Land Concession Contract for the plot to be used for building the waste oil treatment plant; it wasincheiat intre Municipiul Oltenita si SC GREEN OIL AND LUBES SRL, insotit de Incheiere de Autentificare nr.855/09.03.2017; concluded between Oltenita Municipality and SC GREEN OIL AND LUBES SRL, together with the Authentication Report no.855/09.03.2017;

-Aviz de gospodarire a apelor nr. - Water Rights Permit no.109/28.07.2017, privind “PUZ Fabrica de reciclare uleiuri uzate, Municipiul Oltenita, judetul Calarasi”, emis de Administratia Bazinala de Apa Buzau- Ialomita; 109/28.07.2017 regarding "P.U.Z. Waste Oil Recycling Plant, Oltenita Municipality, Calarasi County" issued by the Buzau - Ialomita Water Basin Administration;

-Aviz de amplasament nr. - Building site approval notice no.1/20.09.2017, privind “Fabrica de reciclare uleiuri uzate, Municipiul Oltenita, judetul Calarasi”, emis de Administratia Nationala Apele Romane; 1/20.09.2017 regarding the "Waste Oil Recycling Factory, Oltenita Municipality, Calarasi County" issued by the Romanian Waters Administration;

-Aviz de mediu nr.5/08.08.2017, emis de Agenda pentru Protectia Mediului Calarasi; - Environmental Permit no. 5/08.08.2017 issued by the Calarasi Environment Protection Agency;

-Declaratie pe propria raspundere privind inundabilitatea zonei autentificata prin incheierea nr. – Statutory declaration on the floodability of the area authenticated by the conclusion no. 1003/12.07. 1003/12.07.2017;2017;

- - Hydrological Study in the area of ​​the Oltenita Municipality drawn up by the Hydrology and Water Management National Institute;

- - Water, Sewerage systems location Permit no. 6114/19.12.2016 issued by SC ECOAQUA SA - Oltenita Branch;

- - LetterLetter no. 5194/LAN/04.05.2017 issued by the Ministry of Environment, regarding consultations with the Bulgarian party regarding P.U.Z. Waste Oil Recycling Plant - Oltenita Municipality, Calarasi County;

-Aviz nr.8061/14.12.2016, emis de Asociatia Operatorilor din Agricultura Ecologica - Asociatia BIO ROMANIA (custode a ariei natural protejate ROSCI0088 Gura Vedei Saica Slobozia impreuna cu ROSPA 0038 Dunare- Oltenita si cu ROSPA0090 Ostrovu-Lung-Gostinu, privind “PUZ Fabrica de reciclare uleiuri uzate, Tarlaua 89, Parcela A5774, nr. Cad. 24108, Municipiul Oltenita, judetul Calarasi ”; - Permit no. 8061/14.12.2016, issued by the Organic Farmers Association - BIO ROMANIA Association (custodian of the nature protected area ROSCI0088 Gura Vedei Saica Slobozia together with ROSPA 0038 Danube-Oltenita and ROSPA0090 Ostrovu-Lung-Gostinu, regarding P.U.Z. "Waste Oil Recycling Plant, strip 89, plot A5774, cadastral no. 24108, Oltenita Municipality, Calarasi County";

- - Announcement published in a local newspaper and public information displayed at the headquarters of Oltenita City Hall.

Conform STAS 4273 - 83, paragraf 2.9, tabel nr.8, categoria constructilor hidrotehnice de aparare a obiectivelor industriale de importanta nartSsfeestfi 9According to STAS 4273 - 83, paragraph 2.9, table no. 8, the category of hydrotechnical structures meant to protect the industrial facilities of national importance is 2.

Conform capitolului 5, paragraf 5.1, tabel nr.According to chapter 5, paragraph 5.1, table no. 13 (construc^i definitive de important principals) - clasa de important rezultata este II. 13 (definitive structures of main importance) - the **importance** **class resulted is II.**

Pentra clasa a II - a de importanta, STAS 4068/2 - 87 prevede apararea obiectivului corespunzator debitului avand probabilitatea de depa§ire de p = 1% plus garda (conform STAS 9268-89 pentra digurile care asigura apararea impotriva inundafiilor, cota coronamentului se stabile§te la nivelul corespunzator debitului de calcul peste care se da o garda functie de gradul de importanta al obiectivului) - in cazul de fata se adopta o garda 0,50 m la exploatarea in condipi speciale.For the second importance class, STAS 4068/2 - 87 provides the protection of the facility corresponding to the flow with exceedance probability of p = 1% plus the dike freeboard (according to STAS 9268-89 for the dikes providing protection against floods, the elevation of the dike’s top is established at the level corresponding to the calculation flow over which a dike freeboard is given, depending on the degree of importance of the facility) - in this case, a 0,50 m dike freeboard is adopted for operation under special conditions.

Urmare solicitarilor si documentatiei tehnice inaintate cu adresa FN/2018 inregistrata la Administratia Bazinala de Apa Buzau - Ialomita la nr.Further the requests and technical documentation submitted along with letter FN/2018 registered with the Buzau - Ialomita Water Basin Administration under no. 13124/2018 si a constatarilor din teren, in conformitate cu prevederile Legii Apelor nr.13124/2018 and further to the field findings, according to the provisions of the Water Law no. 107/1996, cu modificarile si completarile ulterioare, ale OUGnr.107/1996, with subsequent amendments and supplements, of GEO no.107/2002 de infiintare si functionare a Administratiei Nationale „Apele Romane” si OUG nr.73/2005 de modificare si completare a OUGnr. 107/2002 on the establishment and operation of the "Romanian Waters" National Administration and GEO no.73/2005 amending and supplementing the GEO no.107/2002, aprobate prin Legile nr.404/2003 si 400/2005 si ale Ordinului nr.662/2006 al ministralui mediului si gospodaririi apelor, privind procedura si competentele de emitere a avizelor si a autorizatiilor de gospodarire a apelor, se emite: 107/2002, approved by the Laws no. 404/ 2003 and 400/ 2005 and of the Order no. 662/ 2006 of the Minister of Environment and Waters Management, regarding the procedure and the competences for issuance of Water Rights Permits and Endorsements, will issue:

AVIZ DE GOSPODARIREA APELOR **WATER RIGHTS PERMIT**

privind investitia : “Fabrica de reciclare uleiuri uzate, Municipiul Oltenita, judetul Calarasi” regarding the investment facility: **"Waste Oil Recycling Plant, Oltenita MunicipalityOltenita, judetul Calarasi”, Calarasi County"**

care , conform documentatiei, cuprinde :which, according to the documentation, includes:

**DESCRIEREA LUCRARILOR PROIECTATEDESCRIPTION OF DESIGNED WORKS**

In vederea realizarii investitiei se vor face lucrari de scoaterea terenului de sub cota de inundabilitate prin construirea unei platforme la cota +18,62 m, in conformitate cu prevederile Avizului de amplasament nr.In order tIn order to perform the investment, works will be executed to remove the plot from the floodable elevation **by building a platform at +18.62 m, according to the provisions of the Building site approval notice no.1 din 20.09.2017 emis de Administratia Nationala Apele Romane. 1 dated 20.09.2017 issued by the Romanian Waters National Administration.**

Pentra realizarea platformei la cota +18,62 m, sa luat in considerare realizarea unei umpluturi compactate realizate in mod controlat din material local (argila prafoasa cafenie) in amestec cu 2,5% liant hidraulic de tip ViaCalco.For the execution of the platform at +18.62 m, it was considered to make on purpose a compacted filling of local material (brown powder clay) mixed with 2.5% ViaCalco hydraulic binder.

Fata de perimetrul platformei la cota +18,62 m, racordarea la terenul natural sa propus a se realiza cu un taluz in panta de 1: 2 care sa asigure stabilitatea pe termen lung a platformei, inclusiv a terenului de fundare, fara a genera tasari semnificative in etapa de exploatare.In terms In terms of the platform’s perimeter at +18.62 m, the connection to the natural ground was proposed to be performed with a ramp in a 1:22 slope, which would ensure the long-term stability of the platform, including of the foundation ground, without generating significant settlement during the exploitation phase.In zonele, in care racordarea la terenul natural depaseste limita terenului concesionat, se va realiza un zid de sprijin din beton In the areas where the connection to the natural ground exceeds the limit of the concessional plot, a steel concrete supporting wall will be builtarmat ..

In amplasamentul fabricii, cotele terenului variaza intre +16,12 si +16,82 m, rezultand o diferenta intre acestea si cota de +18,62 m de 1,8...2,5 m. La o panta de 1: 2 lungimea taluzului va varia intre 3,6 si 5 m.In the plant site, the land elevations vary between +16.12 and +16.82 m, resulting in a difference between them and the +18.62 m of 1,8 ... 2,5 m. At a slope of 1: 2, the length of the ramp will vary between 3,6 and 5 m.

Din analiza modului in care se poate face racordarea la cotele terenului natural, a reiesit ca cea mai mare parte a perimetrului va avea un taluz de 1: 2 si in 3 zone, pe laturile sudica, vestica si estica, se vor realiza ziduri de sprijin cu intaltimeFurther to the analysis of how the connection to the natural ground can be performed, it has been found out that most of the plot’s perimeter will have a slope of 1: 2 and supporting walls will be erected in three areas: on the southern, western and eastern sides. Their height will be variable.

Accesul in amplasament se va face prin intermediul unor rampe cu pante de 1: 10. Acestea vor fi marginite de ziduri de sprijin.Access to the site will be ensured by means of ramps with 1:10 slopes. They will be bordered by supporting walls.

**Taluz 1: 2RampRamp 1: 2**

In zonele in care limitele amplasamentului permit acest lucru, racordarea la terenul natural se va realiza printr-un taluz cu o panta de 1: 2. Se va asigura un strat de 20 cm de pamant vegetal dar si insamantarea taluzului si toate masurile necesare pentru vegetalizarea acestuia.In areas where the site boundaries allow this, the connection to the natural ground will be achieved by a ramp with a slope of 1: 2. A 20 cm layer of vegetal soil as well as seeding of the slope will be ensured. All the necessary measures will be taken for planting it.

**Zid de sprijin Supporting wall**

In zonele in care limitele amplasamentului nu permit racordarea la terenul natural prin intermediul unei pante, sa propus realizarea de ziduri de sprijin din beton armat.In the areas where site boundaries do not allow the connection to the natural ground through a slope, it has been proposed to build reinforced concrete supporting walls. Inaltimea acestor ziduri a fost stabilita in functie de cotele terenului natural la care se face racordarea, la care s-au adaugat 90 cm reprezentant adancimea minima de fundare.The height of these walls was determined according to the elevation of the natural ground subject the connection, to which 90 cm representing the minimum depth of foundation were added.

Avand in vedere starea de consistenta a materialului din amplasament, sa considerat necesara fundarea zidului de sprijin pe o pema de material compactat (amestec material local cu ViaCalco) cu grosimea de 50 cm si latimea 3 m.Considering the consistency of the material on the site, it was decided that it is required to settle the supporting wall on a compacted material bed (a mixture of local material with ViaCalco) having a thickness of 50 cm and width of 3 m.

Pe perimetrul fabricii sunt necesare ziduri de sprijin in urmatoarele zone si cu dimensiunile: Supporting walls are required on the plant perimeter, i.e. in the following areas and with the following dimensions:

-pe latura sudica, din dreptul rampei de acces, zidul de sprijin va avea o intaltime de 3,1 m si o lungime de 136,60 m; - on the southern side, the supporting wall near the access ramp will have a length of 3.1 m and a length of 136.6 m;

-pe latura vestica, in zona in care a fost stabilit sit-ul arhelogic, zidul de sprijin va avea o inaltime de 2,7 m si lungime totala de 41,8 m. - on the western side, in the area where the archaeological site was established, the supporting wall will have a height of 2.7 m and a total length of 41.8 m.

-pe latura estica, la intersectia cu limita nordica, zidul de sprijin va avea o inaltime de 3,4 m si o lungime de 45,8 m. - on the eastern side, at the intersection with the northern limit, the supporting wall will have a height of 3.4 m and a length of 45.8 m.

-rampa de acces din zona estica, va di marginita pe ambele parti de ziduri de sprijin cu inaltimea de 3,2 m si lungimea totala de 47,5 m. - access ramp in the eastern area will be bordered on both sides by supporting walls with a height of 3.2 m and a total length of 47.5 m.

Rampe de acces 1: 10**Access ramps 1: 10**

Accesul in amplasament se realizeaza prin 3 intrari, 2 situate in coltul sud- estic al amplasamentului, unde se va executa o rampa comuna si in zona de mijloc a laturii estice.Access to the site is ensured by 3 entrances, 2 of them will be located in the south-eastern corner of the site, where a common ramp will be built, and in the middle area of ​​the eastern side. Rampele au panta de 1: 10.The rThe rThe ramps have a slope of 1: 10.

**Etape de executie a platformei:Platform execution stages:**

-indepartare pamant vegetal de pe intregul amplasament, dar care se va realiza pe zone; - removal of vegetation soil from the whole site, but this activity will be carried out on separate areas;

-realizare excavatie in zona zidurilor de sprijin si pema de umplutura compactata cu grosimea de 0,5 m si latimea de 3 m; - excavation in the area of ​​supporting walls and compacted filling bed with a thickness of 0.5 m and a width of 3 m;

-executie zid de sprijin; - execution of supporting walls;

-realizare umplutura compactata controlat si asigurarea unui grad de compactare de 97% pana la cota +17,82 m (cu 10 cm deasupra cotei de fundare a obiectelor tehnologice din fabrica ); - executing the controlled compacted filling and ensuring a 97% compaction level up to +17.82 m elevation (10 cm above the foundation elevation of the technological objects in the factory);

-realizare umplutura pana la cota +18,62 m pe perimetrul amplasamentului, asigurand o latime la coronament de 2 m; - execution of the filling up to + 18,62 m elevation on the perimeter of the site, ensuring a dike top with a width of 2 m;

-in interiorul platformei, umplutura pana la cota +18,62 se va realiza dupa executia lucrarilor de infrastructura pentru obiectele tehnologice din fabrica; - within the platform, the filling up to the +18.62 elevation will be performed after the execution of the infrastructure works for the technological objects in the factory;

-in spatiile verzi, ultimii 20 cm de umplutura vor fi din pamant vegetal. - in the green areas, the last 20 cm of the filling will be of vegetal soil.

-Avand in vedere ca , intr-o prima faza, cota 18,62 m va fi asigurata pe perimetrul amplasamentului, pe perioada executiei se vor lua toate masurile necesare de evitare a stagnarii apelor din precipitatii prin asigurarea de pante, realizarea de base si pomparea apei din incinta. - given that in the first phase, the 18.62 m elevation will be provided on the perimeter of the site, during the works execution there will be taken all the necessary measures to avoid the water stagnation due to waterfalls by providing slopes, executing bases and pumping the water out of the site.

Fabrica de reciclare uleiuri uzate va avea o capacitate de procesare de 200

Waste oil recycling plant will have a processing capacity of 200 tons per day and according tobeneficiar o cantitate de procesare anuala de cca. the production flow presented by the beneficiary, it will process every year an amount of about 66.000 tone de uleiuri. 66,000 tons of oils.

Suprafata de teren aferenta obiectivului este de 178.846 m2. Surface area of ​​the facility is 178,846 m2.

Tehnologia combina distilarea in vacuum cu hidrotratarea catalitica sub presiune mare a bazei de ulei recuperata.Technology combines vacuum distillation with high-pressure catalytic hydrotreatment of the recovered oil base.

Componentele investifiei Obiect 1 - Fabrica procesare Obiect 2 - Platforma utilitati **Investment’s components**

Object 1 - Processing plant

Object 2 - Utilities platform

Obiect 3 - Platforma incarcare/descarcare Obiect 4 - Fabrica de hidrogen Obiect 5 - Stacie preepurare Obiect 6 - Remiza PSIObject 3 - Loading/ unloading platform

Object 4 - Hydrogen plant

Object 5 - Pre-treatment plant

Object 6 - Firefighting & safety shed

Obiect 7 - Racord electricitare (post transformare)Object 7 - Electrical connection (processing station)

Obiect 8 - Camera control Obiect 9 - Laborator Obiect 10 - Turn de racire Obiect 11 - Gospodarie de apaObject 8 - Control room

Object 9 - Laboratory

Object 10 - Cooling tower

Object 11 - Water management

Obiect 12 - Atelier mentenanfa si depozit produse chimice Obiect 13 - Cladire administrate Obiect 14 - Drumuri interioare Obiect 15 - ImprejmuireObject 12 - Maintenance workshop and chemical warehouse

Object 13 - Administration building

Object 14 – Inner roads

Object 15 - Fencing

Procesul tehnologic va fi cel de recuperare a uleiului lubrifiant din ulei lubrifiant uzat si de a -1 purifica prin hidrotratare.

Purpose of the technological process will be the recovery of the lubricating oil from the used lubricating oil and its purification by hydrotreatment.

Procesul se va desfasura dupa urmatoarele etape:Process will take place according to the following stages:

I. I. Pre-treatment and filtration

II. II. Dehydration and liquid fuel removal

III. III. Distillation

IV. IV. Separation and stripping of oil from water

**Public hDotarile hidroedilitarehydro-utilities systems**

**Alimentarea cu apa si evacuarea apelor uzateWater supply and waste water discharge**

Alimentarea cu apa a viitoarului obiectiv se va realiza din reteaua publica a SC ECOAQUA SA CALARASI SUCURSALA OLTENITA prin intermediul unui bransament, conform contractului ce se va incheia in acest sens..Water supply of the future facility will be performed from the public network of SC ECOAQUA SA CALARASI SUCURSALA OLTENITA via a branch, according to the contract that will be concluded in this respect.

Apa de alimentare necesara, respectiv Q= 32 mc/h va fi asigurata printr-un racord de <D 3” iar la intrarea in incinta va fi prevazut cu camin cu robinet de sectionare si contor de apa pentru evidentierea consumurilor.Supply water required, i.e. Q = 32 cub m/ h will be provided by a ɸ 3" connection and the entrance of the facility will be provided with collection chamber, insulation valves and water meter to monitor the consumption.

Reteaua interioara de apa potabila din interiorul incintei va fi prevazuta din teava PEHD-PE 100- PN 10 si va fi prevazuta cu robinete de sectionare pentru interventii independente la intrarile in cladiri.Indoor drinking water network of the facility will be provided by PEHD-PE 100-PN 10 pipe and will be equipped with insulation valves for independent interventions at building entrances.

Conductele de apa se pozeaza ingropat, sub cota de inghet, vor fi protejate prin inglobare in nisip iar la subtraversarile de drumuri se vor monta in tevi de otel (protectoare).WWater supply pipes are run buried under the freezing mark, are protected by sand layer, and near the underpasses they will be mounted in steel protection pipes.

Apa din reteaua publica va fi utilizata: Water from the public network will be used:

-in scop igienico-sanitar (de catre angajatii societatii - aproximativ 37 angajati, programul de lucru va fi in 2 schimburi, 12 ore/schimb ; 24 ore/zi) - for hygienic-sanitary purpose (by the employees of the company - about 37 employees, the work schedule will be in 2 shifts, 12 hours per shift, 24 hours per day);

-tehnologic (preparat abur, racire instalatie (apa care se recircula), stripare gaze si deshidratare ulei) – for technological purpose (steam preparation, cooling installation (recirculation water), gas stripping and oil dehydration);

-in cadrul laboratorului (se vor clati recipientii utilizati in cadrul laboratorului) -igienizare spatii - in the laboratory (the receptacles used in the laboratory will be rinsed)

* for cleaning of spaces

-pentru asigurarea rezervei PSI - este prevazut un rezervor de incendiu cu V = 500 me, in vederea alimentarii hidrantilor interiori si exteriori. - to provide the fire-fighting equipment reserve - a fire-fighting tank with V = 500 cub m is provided, in order to supply the inner and outer hydrants.

Cerinta de apa pentru activitatile desfasurate in incinta este:

**Water demand for the activities performed within the facility is:**

Qs zi min = 112,57 mc/zi (1,30 1/s );Qs day min = 112.57 cub m/ day (1.30 l/s); V annual = 41088,05 mc/an Qs zi med = 140,72 mc/zi (1,63 1/s);VV aVV annual = 41088.05 cub m/ year

Qs day aver. = 140,72 cub m/ day (1.63 l/s); V annual = 51362,80 mc/an Qs zi max = 154,79 mc/zi (1,79 1/s); V annual = 51362.80 cub m/ year

Qs day max = 154.79 cub m/ day (1.79 l/s); V annual = 56498,35 mc/an V annual = 56498,35 cub m/ year

Evacuarea apelor uzate menajere **Household wastewater discharge**

Apele uzate menajere impreuna cu apele rezultate de la igienizarea spatiilor si cele de la clatirea recipientilor (de la laborator) vor fi evacuate prin intermediul unui racord R1 in reteaua publica de canalizare a SC ECOAQUA SA CALARASI SUCURSALA OLTENITA, conform contractului, care se va incheia in acest sens.Waste water together with the water from the sanitization of the premises and that from the rinsing of the receptacles (from the laboratory) will be discharged via an R1 connection into the public sewerage network of SC ECOAQUA SA, CALARASI SUCURSALA OLTENITA according to the contract, which will be concluded in this regard.

Apele uzate, ce vor rezulta de la spalarea veselei (de la cantina), vor fi trecute printr-un separator de grasimi dupa care vor fi evacuate impreuna cu apele menajere si cele din igienizarea spatiilor, in reteaua de canalizare publica, conform contractului care se va incheia in acest sens.Waste water, which will result from the dishwashing (from the canteen), will be passed through a grease separator and then discharged together with household water and the water resulted from the sanitization of the premises into the public sewerage network, according to the contract which will be concluded in this respect.

Evacuarea apelor tehnologice rezultate in urma procesului productiv si a apelor pluvialeDisposalDisposal of the technological waters resulting from productive processes and rainwater

Apele uzate tehnologice rezultate de striparea gazelor si deshidratarea uleiului vor fi trecute printr-o instalatie de tratare inainte de a fi evacuate in reteaua de canalizare publica.Technological waste waters resulted from stripping the gas and oil dehydration will be passed through a treatment plant before being discharged into public sewers.

O data pe an, se vor evacua si apele utilizate pentru racirea instalatiei.Once a year, the water used to cool the plant will also be discharged.Inainte de evacuarea in reteaua de canalizare publica, acestea vor fi trecute prin intermediul instalatiei de tratare. Before discharging into the public sewerage network, it will be passed through the treatment plant.

Instalatiile tehnologice si parcul de rezervoare vor fi prevazute cu retele de canalizare uleioasa care vor deversa in Statia de tratare a Fabricii de reciclare uleiuri uzate in scopul de a recuperara uleiul si a fi si reintrodus in circuit.Technological installations and tank fleet will be provided with oily sewerage networks that will discharge into the Waste Oil Recycling Plant Treatment Plant in order to recover the oil and be re-entered into the circuit.

Apele epurate rezultate Q= 15 mc/h, (sub 5mg/l ulei in apa epurata), pot fi deversate in reteaua orasului daca se incadreaza in indicatorii de calitate impu§i.Treated water resulted Q = 15 cub m/ h (below 5mg/ l of oil in treated water) can be discharged into the public network, if it falls within the compulsory quality indicators.

Conductele de canalizare uleioasa (OTEL-DnlOO - 200 ) se vor monta fiind ingropate sub cota de inghet si vor fi protejate anticoroziv la exterior cu izolatie foarte intarita.Oiled draining pipes (STEEL-Dn100-200) will be buried below the freezing mark and will be protected against corrosion on the outside with very hardened insulation.

**Apele pluviale vor fi trecute printr-un separator de hidrocarburi si evacuate in reteaua de canalizare publica, prin intermediul racordului R2.Rainwater** will be passed through a hydrocarbon separator and discharged into the public sewerage through the R2 connection. Conductele de canalizare pluviala vor avea Dn 500.Rainwater sewerage pipelines will have Dn 500.

Apele pluviale de pe taluzurile platformei betonate pe care se va construi fabrica se vor evacua liber la teren, platforma va fi bordurata si cu retea de preluare a apelor pluviale formate din rigole si geigere.Rainwater coming from the embarkments of the concrete platform on which the plant will be built will be discharged freely to the ground, the platform will be flanked with a rainwater collection network formed by drains and collection chambers.

Flow rate of the tDebitul de apa uzata totala evacuata din incinta unitatii, pentru o restitutie de 100%, este de:otal waste water discharged from the premises, for a 100% return, is:

Qu zi med = 3,01 mc/zi (0,03 1/s );Qu day aver. = 3.01 cub m/ day (0.03 l/s); V ev. V.anual = 1098,65 mc/an Qu zi max = 3,24 mc/zi (0,04 1/s); annual = 1098.65 cub m/ year

Qu day max = 3.24 cub m/ day (0.04 l/s); V ev.V. anual = 1182,60 mc/an annual = 1182,60 cub m/ year

**Zone cu interdictie de construireAreas with building ban**

Nu se vor executa constructii ( cladiri , instalatii de orice fel, imprejmuiri, anexe, etc. ) in zonele de protectie: No structures (buildings, installations of any kind, enclosures, off-sites, etc.) will be built in the protection areas:

- -  of the water supply sources, according to GD no. 930/2005 ;930/2005;

- -  of the water courses, according to the Water Law no. 107/1997, cu modificarile si completarile ulterioare, Anexa nr. 107/1997, with subsequent amendments and supplement, Annex no.2; 2;

- -  of the existing water pipes - area protected against construction and technical corridor;

- -  of the navigable channel.

**Avizul de gospodarire a apelor se emite cu urmatoarele conditii:Water Rights Permit is issued under the following conditions:**

- **- Beneficiary is required to obtain all approvals, agreements and authorizations provided for by law before starting the execution.**

-Avizul de gospodarire a apelor isi mentine valabilitatea pe toata durata de realizare a lucrarilor, daca executia acestora a inceput in cel mult 24 de luni de la data emiterii avizului si daca au fost respectate prevederile si conditiile inscrise in aviz; - Water Rights Permit shall remain valid for the entire duration of the works, if their execution started within 24 months from the date of the permit’s issue and if the provisions and the conditions stated in the permit were observed;in caz contrar, avizul isi pierde valabilitatea. otherwise, the permit loses its validity.

-In situatia in care nu sunt respectate conditiile impuse prin avizul de amplasament nr.1/20.09.2017, emis de Administratia Nationala Apele Romane, respectiv realizarea lucrarilor de scoaterea terenului de sub cota de inundabilitate prin construirea unei platforme la cota +18,62 mdM, prezentul aviz de isi pierde valabilitatea. **- If the conditions imposed by the Building site approval notice no. 1/ 20.09.2017 issued by the Romanian Waters National Administration are not observed, respectively, to execute the works for the plot lifting above the floodable elevation by building a platform at +18.62 mdM, this permit loses its validity.**

**-Daca, dupa elaborarea studiilor, rezulta modificari ale solutiilor tehnice sau a parametrilor tehnici si capacitatilor, se va solicita aviz modificator al prezentului aviz de gospodarire a apelor. – If changes in technical solutions or technical parameters and capacities result after the elaboration of studies, an amendment of this Water Rights Permit will be requested.**

-Beneficiarul si constructorul au obligatia ca , pe parcursul executiei si exploatarii, sa ia toate masurile necesare pentru prevenirea poluarii apelor subterane si de suprafata, revenindu-le obligatia de a respecta integral prevederile prezentului aviz. **- Beneficiary and manufacturer commit, during the execution and operation, to take all necessary measures to prevent pollution of groundwater and surface water, and they are held responsible to fully comply with the provisions of this permit.In cazul producerii poluarilor accidentale, sa anunte Sistemul de Gospodarire a Apelor Calarasi si Administratia Bazinala de Apa Buzau Ialomita. In case of accidental pollution, they need to inform the Calarasi Water Management System and Buzau - Ialomita Water Basin Administration. In situatia producerii unor poluari, SC GREEN OIL AND LUBES SRL este direct raspunzatoare.In case pollution occurs, SC GREEN OIL AND LUBES SRL is directly responsible.**

- - AAnsamblul de lucrari pentru dotarea urbanistica a spatiului analizat se va incadra in clasele de importanta corespunzatoare, conform STAS 4273/83.ssembly of works for the urbanization of the space analysed will be included in the classes of relevant importance according to STAS 4273/83.

- - Proposed works will be carried out with strict observance of the technology and protection measures provided for in the project, so as not to affect the surface and underground waters.

- - Prezentul aviz nu se refera la partea de rezistenta si stabilitate a lucrarilor. This permit does not refer to the strength and stability of the works.

- **- Realizarea lucrarilor de aparare se va face anticipat, conform Ordinului nr. Protection works will be performed in advance, according to Order no.2/2006 al Ministerului Mediului si Gospodaririi Apelor, pentru apararea impotriva inundatiilor a obiectivului propriu zis, inainte de inceperea executiei propriu-zise a obiectului de investitie, in conformitate cu prevederile Avizului de amplasament nr.1/20.09.2017, privind “Fabrica de reciclare uleiuri uzate, Municipiul Oltenita, judetul Calarasi”, emis de Administratia Nationala Apele Romane. 2/2006 of the Ministry of Environment and Water Management, for the protection of the facility in question against the flood, before starting the actual execution of the investment facility, according to the provisions of the Building site approval notice no. 1/ 20.09.2017 regarding the "Waste oil recycling plant, Oltenita Municipality, Calarasi County" issued by the Romanian Waters National Administration.**

**- - Beneficiarul va lua toate masurile ce se impun pentru asigurarea amplasamentului impotriva inundatiilor conform celor mentionate^jbuBeneficiary will take all necessary measures to ensure the protection of the site against flooding, as described in the technical documentation on the calculation of the site’s floodability**

-In cazul deteriorarii partiale sau totale a obiectivului datorita actiunii apei, beneficiarul va suporta toate cheltuielile generate de aceasta. **- In case of partial or total damage of the site because of the water action, the beneficiary will bear all the expenses generated by it.**

-In timpul executiei lucrarilor se interzice depozitarea in albie si pe malurile raului Arges, respectiv a fluviului Dunarea, a materialelor folosite sau rezultate care ar crea pericol de inundare in aval, la viituri, prin obturarea sectiunilor de curgere a apei. - During the execution of the works, it is forbidden to deposit in the riverbed and on the banks of Arges river, respectively the Danube river, the materials used or resulted from works and that would create flood danger downstream and high-waters, by plugging the water flow sections.

-Beneficiarul are obligatia sa transmita la Administratia Bazinala de Apa Buzau-Ialomita contractul incheiat cu SC ECOAQUA SA Sucursala Oltenita pentru alimentarea cu apa o obiectivului si pentru evacuarea apelor uzate rezultate de pe amplasament in reteaua de canalizare a Municipiului Oltenita. - Beneficiary has the obligation to send to the Buzau-Ialomita Water Basin National Administration the contract concluded with SC ECOAQUA SA Oltenita Branch for the water supply of the facility and for the discharge of the waste water resulted from the site into the sewerage network of Oltenita Municipality. Termen: 31.10.2018. Deadline: 31.10.2018.

- Conform Legii apelor nr. - According to the Water Law no.107/1997, cu modificarile si completarile ulterioare, punerea in functiune si exploatarea lucrarilor construite pe ape sau care au legatura cu apele, se poate realiza numai dupa obtinerea autorizatiei de gospodarire a apelor. 107/1997, as subsequently amended and supplemented, the commissioning and operation of the works built on waters or are connected to the waters, may be performed only after obtaining the Water Rights Permit.Aceasta se va solicita la Administratia Bazinala de Apa Buzau-Ialomita pe baza unei documentatii tehnice intocmite conform Ordinului ministrului mediului si gospodaririi apelor nr. This will be requested at the Buzau-Ialomita Water Basin National Administration on the basis of a technical documentation drafted according to the Order no. 799/2012, de un proiectant atestat de Ministerul Apelor si Padurilor.799/2012 of the Minister of Environment and Water Management by a designer certified by the Ministry of Waters and Forests.

Nerespectarea prevederilor prezentului aviz atrage raspunderea civila sau penala, dupa caz, conform prevederilor Legii apelor nr.Failure to comply with the provisions of this Permit shall entail civil or criminal liability, as the case may be, in accordance with the provisions of the Water Law no. 107/1996, cu modificarile si completarile ulterioare.107/1996, with subsequent amendments and completions.

Documentatia tehnica de fundamentare a avizului de gospodarire a apelor, vizata spre neschimbare, face parte integranta din prezentul aviz de gospodarire a apelor.Technical documentation underlaying the Water Rights Permit, endorsed for proof of non-alteration, is an integral part of this Water Rights Permit.Un exemplar din documentatie, sa transmis solicitantului, impreuna cu un exemplar din aviz. A copy of the documentation was sent to the applicant together with a copy of the permit.

Raspunderea privind datele, calculele si piesele desenate, incorporate in documentatia tehnica de fundamentare a avizului de gospodarire a apelor revine integral elaboratorului documentatiei, respectiv SC SMART ECOLOGIC CONSULTING SRL, iar pentru datele din solicitare, beneficiarului SC GREENResponsibility for the data, calculations and drawings, incorporated in the technical documentation for substantiation of the Water Rights Permit rests entirely with the documentation drafter, namely SC SMART ECOLOGIC CONSULTING SRL, and the responsibility for the data in the application rest with the beneficiary - SC GREENOIL AND LUBES SRL OIL AND LUBES SRL.

Director, Director, RAPM Technical Manager, Head of AA Service,

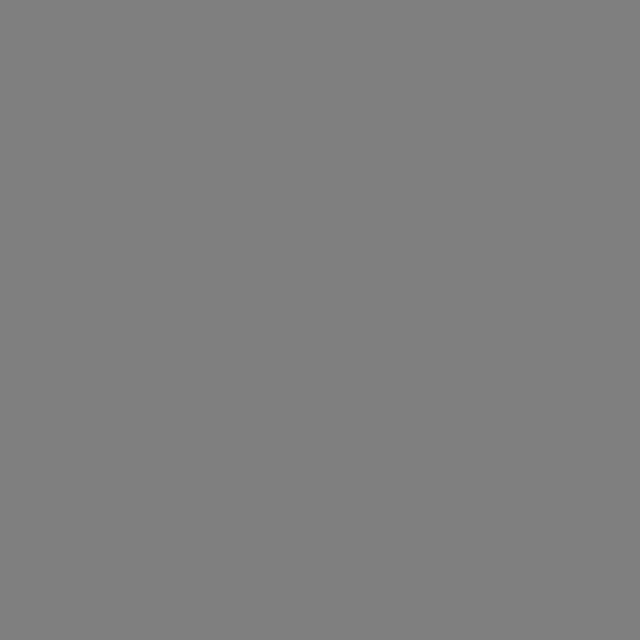
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       Head of Legal Office, Drawn up by,

Cristina Vlad       Octavian Dragulin

Ing. Cornelia Radu Director Tehnic RAPM, Ing. Dumitru Iosif [round stamp and illegible signature] Director Tehnic RAPM, Ing. Dumitru Iosif [illegible signature]

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