



2019 RURAL DEVELOPMENT FUND GRANT APPLICATION FORM

INSTRUCTIONS: Please read the Rural Development Fund Guidelines prior to completing this application form. Please complete all sections of this form.

This grant opportunity is to promote the sustainability of land-based industries and support infrastructure that benefits rural communities in the following areas:

- Food and Agriculture
- Forestry
- Mining
- Oil and Gas Production
- Tourism

The grant funds are available for projects that address expansion and sustainability of land-based industries; worker training related to land-based industries; and energy, transportation, communications, water and wastewater infrastructure to benefit rural communities and Micropolitan statistical areas.

PROJECT TYPE (PLEASE CHECK PRIMARY PROJECT TYPE)

Infrastructure Development
 Rural Capacity Building

Business Development
 Talent Development/Training

APPLICANT INFORMATION (SEE GUIDELINES FOR ELIGIBLE APPLICANTS)

Title of Project: **Republic Dam Modifications**

Legal Name of Applicant Organization: **Michigamme River Basin Tax Increment Financing and Water Improvement Authority**

Address (Street, City, Zip): **279 Kloman Avenue PO Box 251 Republic, MI 49879**

County: **Marquette**

DUNS Number (if applicable): **N/A**

Profit or Non-Profit Organization: **Non-Profit**

Primary Contact Name: **James Brennan**
Address: **PO Box 251, Republic, MI 49879**
Phone: **(906) 376-2009**

Title: **Authority Chairman**
E-Mail: **lburton@northpines.net**

FUNDING REQUEST (ROUND TO NEAREST \$100, MAXIMUM TOTAL GRANT AMOUNT REQUEST IS \$100,000)

Total Grant Amount Requested:	\$ 100,000
Total Match (Must be at least a 30% cash match of the grant amount)	\$ 104,330
Total Project Amount:	\$ 204,330

PROJECT SUMMARY

Provide a concise description of the project and how the project will support land-based industries and rural communities.

The Michigamme River Basin Authority Tax Increment Financing and Water Improvement Authority (MRBA) is requesting funding to support modification of Republic Dam (Michigan Dam No. 00579) from its existing spillway to a fixed crest spillway. This project will meet the ongoing goals of MRBA, Republic Township, and community members to maintain existing reservoir levels, reduce long-term operations and maintenance costs, preserve reservoir property values, provide sustainable recreation opportunities, and continue to grow the local tourism-based economy.

The project outcomes include:

1. Removing the existing dam gates and associated steel components.
2. Removing of the existing steel walkway.
3. Partially removing the concrete piers to accommodate hydraulic capacity and maintain the reservoir elevation as close to 1492.2 as is practical.
4. Modifying the existing spillway to a fixed crest structure.
5. Reducing long-term operation and maintenance costs.
6. Restoring recreational use of the Republic Dam reservoir.
7. Addressing wetland and inland lakes and streams impacts related to fluctuating seasonal reservoir elevations.
8. Maintaining the dam in a safe manner.

PROJECT INFORMATION/IMPACT

Provide a focused and well-defined project description and the specific goals and outcomes that will be accomplished due to this grant. (Please address the following in your response.)

- A. What are the specific outcomes you will achieve due to the project?
- B. How will those outcomes be measured?
- C. How will the project build capacity in rural communities?
- D. How will the project become financially viable? Who is providing the match?
- E. Will the project be sustainable after the grant period?
- F. What is the near-term and long-term impact of the project?
- G. How will the project provide a regional benefit?
- H. Will the project lead to job creation and private investment?
- I. Will the project leverage additional federal, state or local funding?
- J. Please list stakeholders/supporters of the project.

Background:

Republic Dam is located on the Michigamme River in Section 18, Township 46 North, and Range 29 West. The dam is located between North and South Republic, both of which are within Republic Township. The dam was originally constructed in 1876 as a holding area for logs floated down the Michigamme River. Shortly after its construction for the timber industry, the dam was retrofitted and modified for hydroelectric power to assist with early community developments and the operating of the Republic Mine from 1872 to 1926.

In addition to providing hydroelectric power for Republic Mine, the reservoir created by the dam is a source of identity for members of the community. Several local citizens and tourists to Michigan's remote Upper Peninsula stop on the Michigamme River and the Republic Dam Reservoir to take in the fall colors, search for waterfowl, boat, fish, and swim. This tradition of recreation on the basin has allowed some fortunate members of the community to purchase waterfront property and develop the shoreline for residential use.

The structure as it exists today was built around 1915 and consists of the concrete dam and outlet works, the emergency spillway, and the former powerhouse site with the associated tailrace. The surface area of the reservoir is approximately 180 acres and the storage capacity is approximately 1,450 acre-feet. The reservoir elevation is typically maintained around 1492.2 feet, which results in a total head across the structure of approximately 10-feet. The attached documents included with this application depict and further describe the project location and existing dam structure.

The primary dam spillway currently operates by passing flows from the Michigamme River downstream through three separate spillway openings each 12 feet in width and 10.73 feet in height. A sluice gate slides up and down within each spillway opening and allows the dam owner to manage water levels within the reservoir. Typical management practice includes lowering the gates in the summer months during low flows in order to maintain the reservoir level near 1492.2 feet. During the fall, winter, and spring, the gates are raised to the open position which allows the water level in the reservoir to rise and fall with the natural flow of the Michigamme River.

In recent years, the dam has needed costly maintenance and repairs. In the latest Dam Safety inspection report required by Michigan's DEQ Part 315 Dam Safety Program, some of the maintenance and repair recommendations included:

1. Repair or reinforcement of the existing gates.
2. Repair of deteriorated concrete supporting the existing gates.
3. Monitor ground loss around the dam near the right concrete abutment wall.
4. Monitor undermining of concrete piers and the overflow spillway.

The MRBA recently purchased the dam from the former owner with intent to preserve the impoundment. The MRBA mission is to promote and maintain the inland water resources of the district by planning and fostering responsible economic development and fiscal responsibility. Steps taken by the MRBA include working with the Michigan MDEQ Part 315 Dam Safety staff in order to determine the safest way to continue dam operation. In 2017, the existing spillway gates were refabricated so that the dam can continue to operate safely while a viable long-term solution for operation could be identified.

In 2018, GEI Consultants of Michigan, P.C. (GEI) worked with MRBA in the preliminary planning of dam modifications. It is proposed the existing dam gates be removed / plugged and the dam itself be converted to a fixed crest spillway. Construction of the fixed crest spillway reduces operation and maintenance costs associated with operating the current gate arrangement. Removal of the existing gates and modifying the dam to a fixed crest spillway aids MRBA in our goal to maintain reservoir levels, and to do so in a fiscally responsible manner.

Project Outcomes

The project outcomes include:

1. Removing the existing dam gates and associated steel components.
2. Removing of the existing steel walkway.
3. Partially removing the concrete piers to accommodate hydraulic capacity and maintain the reservoir elevation as close to 1492.2 as possible.
4. Modifying the existing spillway to a fixed crest structure.
5. Reducing long-term operation and maintenance costs.
6. Restoring recreational use of the Republic Dam reservoir.
7. Maintaining the dam in a safe manner.

Measurement of project outcomes will coincide with completion of dam modifications. Project outcomes 1, 2, 3, and 4 will be measured and assessed during the final construction walkthrough completed by the MRBA's engineering consultant. Project Outcome 5 will be assessed by MRBA through comparison of Republic Dam Expenditures prior to project completion with expenses accrued following project completion. Project Outcome 6 will be measured by speaking with members of the public, inquiring with the Michigan DNR over Creel Surveys, interviewing fishermen during the annual fishing derby, and speaking with local merchants that hope to see an increase in spending related to recreation-based tourism. Project outcome 7 will be measured by the 5-year dam safety inspections that will continue to be required following project completion.

Financial Commitment and Project Costs

The MRBA will directly provide project match funding. To date, no additional federal, state, or local funds have been acquired for this project. An engineer's opinion of probable cost was developed by GEI based on recent similar projects, vendor quotations and experience. The construction project will be publicly advertised and bid in accordance with MRBA's requirements. The cost opinion includes anticipated contractor costs including equipment mobilization, disposal costs, complying with general contract requirements, as well as the generator equipment and installation costs.

Regional Benefit

This project will benefit the region in several ways. There are residential properties adjacent to the existing reservoir. The fixed crest spillway will allow for natural fluctuation of water levels above the spillway invert of 1491. Providing a stable water surface elevation near

1492 throughout the entire year will preserve existing riparian owner's property values and potentially raise property values for further development around the reservoir.

Also, the Republic Sportsman's Club hosts an annual Fishing Derby on the impoundment and has done so for 28 years running. Entry fees and participation in the weekend-long fishing tournament are an economic boost to the township and its local merchants. In 2018, over 400 people participated and more than \$6,000 was paid in entrance fees. The annual event is more than a fishing tournament, it is an opportunity for people to commune in Republic for the fireworks display, contribute funds to the local Fire Department for their fundraising efforts during the event, and camp in Northern Michigan during the beautiful summertime. Maintaining the impoundment elevation allows the waterway to be passable with a motor boat.

Republic Township and the State of Michigan MDNR has been investing in Munson Park (also referred to as Northern Lights Campground) located on the impoundment as well as adjacent the Republic Mine tourist viewing platform and Iron Ore Heritage Trail. Due to the popularity of the annual fishing derby and Republic's interest in increasing their tourism industry, the campground has reinvigorated the community. In 2017, the township received a \$172,200 Michigan DNR Trust Fund grant to open the campground. Thus far, reservations have been high, with twice as many reservations in 2018 as there were in 2017 for the campground opening. Several of the sites are already booked for the 2019 fishing derby. Preserving the impoundment elevation is important to the viability of the campground.

Project Sustainability

Maintaining a reservoir with a sustainable water level is critical to the long-term success of Republic's tourism industry, preservation of property values, and continued recreational use of the reservoir. Numerous businesses in Republic rely heavily on tourism revenue to make ends meet year after year. The town of Republic has been developed around this reservoir for more than 100 years. The modifications of the existing dam will enable MRBA to continue to manage the reservoir level for community enjoyment, continued recreational-based tourism, and preservation of property values within this rural town in Marquette County.

Stakeholders

The following entities support this funding application:

- Lake Superior Community Partnership
- Republic Township
- Michigan DNR Fisheries Division
- Moose Country Snowmobile Club
- County of Marquette
- State Representative 109th District Rep. Sara Cambensy

Letters of support from each entity are included as an attachment to this application.

PROJECT TIMELINE AND WORK PLAN

Describe all activities that will be performed to accomplish the objectives of the project. All projects must be completed within the 18-month grant period. Projected starting date for grant project February 2019.

GRANT WORK PLAN	
Tasks	Projected Completed by (date)
MDARD Grant Award / Engage Design Engineer	March 2019
Design Plans, Specs and Bidding Documents Issued	September 2019
Bids Received / Project Awarded	October 2019*
Construction Begins	January 2020
Project Substantially Complete / Punchlist Developed	March 2020
Project Final Completion / As-Built Documents	May 2020

****Note that the project schedule is highly dependent on low-flow river conditions, which typically occur during the winter and summer months.***

BUDGET NARRATIVE

Please use the table below and provide a brief description of how funds will be used for each funding category. (This is a cost reimbursement grant program).

Budget Narrative

If grant funds are awarded to MRBA through this application, the MDARD funds will be used to directly fund construction line items for infrastructure development. Matching funds from MRBA will fund the remaining project costs including contractual professional services, permit and regulatory fees, and the installation of a project sign recognizing all project partners.

Infrastructure Development:

Specific line items are indicated in the below cost table based on an engineering opinion of probable cost prepared by GEI. The project is located in Republic, Michigan at Republic Dam which is owned and operated by MRBA. The MRBA will access the site through adjacent property owned by Republic Mountain Lake, LLC. MRBA has been in contact with Republic Mountain Lake, LLC through the planning stages of this project. A letter granting access to MRBA is included with this application.

Equipment

Not applicable. Equipment costs necessary to complete the project were included within the engineer's opinion of probable cost as developed by GEI.

Material/Supplies

Not applicable. Materials / Supplies costs were included within the engineer's opinion of probable cost as developed by GEI.

Contractual

An engineering budget is provided by GEI for Design Engineering and Construction Engineering services. The MRBA has not entered into a contractual agreement for

professional services at this time. It is anticipated that engineering fees will be accumulated on an hourly rate basis, within a not-to-exceed maximum amount.

Contractual services are anticipated to include, but not be limited to the following items:

1. Topographic survey data collected via drone and traditional survey methods.
2. Bathymetric survey data collected upstream and downstream of the project site.
3. Sediment soundings in the impoundment to determine impounded sediment volumes.
4. Ecological Surveys including wetland assessments and freshwater mussel surveys.
5. Soil borings to identify river bed material downstream of the project site.
6. Scour analysis using bathymetric survey and soil boring data.
7. Hydraulic, Sediment Transport, and Floodplain analysis using topographic, sediment sounding, and bathymetric survey data.
8. 30% conceptual plan design to present to the MDEQ during the project pre-application meeting.
9. Regulatory permit applications including the MDEQ Inland Lakes and Stream Joint Permit Application, State Historic Preservation Office Application, and Marquette County Soil Erosion/Sediment Control Application.
10. Stakeholder meetings involving the owner, consultant, adjacent landowner, agency personnel, and community members.
11. Permit plans to submit with regulatory permit applications.
12. Construction specifications and construction bid administration.
13. Bid advertisement on on-site pre-bid meeting.
14. Selection and awarding of construction contract.
15. Project construction oversight.
16. Construction inspection/site walkthrough/punch list.
17. Final as-built project documents.

Personnel / Salaries

Not applicable.

Fringe Benefits

Not applicable.

Other

Not applicable.

Item	Requested Funds	Matching Funds – (30% cash match required)	Project Totals
Infrastructure Development (Add lines if necessary)			
Contractor Mobilization		\$ 12,000	\$ 12,000
Dam Concrete Removal	\$ 24,000	\$ -	\$ 24,000
Dam Gate Removal	\$ 6,500	\$ 6,500	\$ 13,000
Dam Walkway and Associated Steel Removal	\$ 6,000	\$ 6,000	\$ 12,000
River Water Management		\$ 18,000	\$ 18,000
Concrete – Fixed Crest Spillway	\$ 45,000	\$ -	\$ 45,000
Existing Concrete Restoration	\$ 18,500	\$ 13,600	\$ 30,100
Total Infrastructure	\$ 100,000	\$ 56,100	\$ 154,100
Equipment, Materials and Supplies			
Not Applicable			
Total Materials/Equipment/Supplies			
Contractual			
Professional Services - Engineering Design	\$ -	\$ 36,230	\$ 36,230
Professional Services - Construction Engineering	\$ -	\$ 10,000	\$ 10,000
Total Contractual	\$ -	\$ 46,230	\$ 46,230
Salaries/Fringes			
FTE, % of time, salary, etc.			
Total Salaries/Fringes			
Other (Please list activities)			
Permit and Regulatory Application Fees	\$ -	\$ 2,000	\$ 2,000
Grant Recognition Sign	\$ -	\$ 2,000	\$ 2,000
Total Other	\$ -	\$ 2,000	\$ 4,000
Total Project Cost	\$ 100,000	\$ 104,330	\$ 204,330

Authorization:

By submitting this Application, the Authorizing Agent is guaranteeing that the information contained in this Application is correct and verifiable. The Authorizing Agent is also affirming that the funds requested herein will be used for the specific purpose outlined in this Application and for no other purpose.

Grant Deadline: **All proposals must be received by 3 p.m. Eastern Standard Time on Wednesday, November 14, 2018**, via MDA-grants@michigan.gov. If you do not receive a confirmation of receipt from our office within 24 hours, please call 517-284-5734.



2019 RURAL DEVELOPMENT FUND GRANT INSTRUCTIONS

Project Type: Please select the project type that best describes your project.

Applicant Organization Information/Primary Contact: The Applicant Organization Name and Primary Project Manager contact information including phone number and email address. This person is responsible for signing the grant agreement and will serve as the main point of contact for all project inquiries. Include your Data Universal Numbering System (DUNS) number, if applicable.

Eligible Applicants:

- Organizations
- Businesses
- Individuals
- Federally Recognized Tribes
- Educational Institutions
- Local Units of Government (county, city, township, village, school district; any authority composed of counties, cities, townships, villages and school districts or combination of these entities)

Eligible Rural Communities & Micropolitan Statistical Areas:

Projects in the following counties are eligible rural (60,000 population or less), or Micropolitan statistical areas:

- | | | |
|--------------|------------------|----------------|
| • Alcona | • Gogebic | • Mecosta |
| • Alger | • Grand Traverse | • Menominee |
| • Allegan | • Gratiot | • Missaukee |
| • Alpena | • Hillsdale | • Montmorency |
| • Antrim | • Houghton | • Newaygo |
| • Arenac | • Huron | • Oceana |
| • Baraga | • Ionia | • Ogemaw |
| • Barry | • Iosco | • Ontonagon |
| • Benzie | • Iron | • Osceola |
| • Branch | • Isabella | • Oscoda |
| • Cass | • Kalkaska | • Otsego |
| • Charlevoix | • Keweenaw | • Presque Isle |
| • Cheboygan | • Lake | • Roscommon |
| • Chippewa | • Leelanau | • Saint Joseph |
| • Clare | • Lenawee | • Sanilac |
| • Crawford | • Luce | • Schoolcraft |
| • Delta | • Mackinac | • Shiawassee |
| • Dickinson | • Manistee | • Tuscola |
| • Emmet | • Marquette | • Wexford |
| • Gladwin | • Mason | |

Per the Rural Development Fund Act criteria, preference must be given to projects in the region in which revenues are generated and include Marquette County.

Rural Development Grant Amount Request: Indicate the dollar amount requested for grant funding, **maximum grant amount requested is \$100,000**. The total amount of funding in the current year is approximately \$1,250,000. Please round dollar amounts to the nearest \$100.

Matching Funds: Indicate the dollar amount of matching funds. Matching funds must be at least 30% of the total Rural Development grant amount request. For example, if you are requesting \$100,000 then you must provide a match of at least \$30,000. Cash match is required. In-kind match will be considered as part of the review criteria but will not count towards minimum match requirements. Salaries may be included as in-kind match if the applicant can demonstrate that the time and salaries included were directly spent to support the project seeking grant funding.

Project Summary: Include a concise project summary suitable for dissemination to the public. A Project Summary provides a very brief description of your project. Include the name of the applicant organization; a concise outline of the project's outcome(s); and a description of the general tasks to be completed during the project period to fulfill this goal.

Project Information/Impact: Please make sure to address the questions included in this section as well as identifying individuals, organizations, and/or entities that committed to this project and how they will support this project.

Budget Narrative: This is a cost reimbursement program. Provide justification for your budget proposal that is outlined in the Budget Form. Please include sources and amounts of match dollars and any in-kind funding. The budget narrative must include the following categories (if applicable to project) and a budget narrative that provides justification for such budget categories and items:

- **Infrastructure Development:** Please identify the specific infrastructure project and the costs associated with the project, including location of the project.
- **Equipment:** Indicate anticipated purchases of equipment. List separately each item of equipment, its cost. Equipment means any tangible, nonexpendable, personal property, including exempt property charged directly to the grant. In the budget narrative, provide the basis of the cost estimate (e.g. price analyses, vendor quotes) for each piece of equipment and its correlation to the purpose/goals of the project to justify your need for the equipment to be purchased.
- **Materials/Supplies:** Provide an estimate of projected supply expenditures. Applicants must list each item separately, its cost and use. Supplies means any tangible, personal property other than equipment (as defined above), excluding debt instruments and inventions. In the budget narrative, provide the basis of the cost estimate (e.g. price analyses, vendor quotes) for each supply item being requested and its correlation to the purpose/goals of the project to justify your need for the supplies to be purchased.

- **Contractual:** List the contractor's name and title and the general categories of services the contractor cost will cover.
 - A. For contractors, indicate if the expense represents a flat fee for services or an hourly rate. Provide justification for how and why the contractor was selected vs. the organization's own staff/personnel. List the general categories of services the contract covers (e.g., professional services, travel, lodging, administrative expenses, etc.).
 - B. Proof must be provided of the customary charges for such services rendered, based on the individual's qualifications.

- **Personnel/Salaries:** List the individual's name and title and the general categories of services the person will perform (e.g., project manager). Show annual/hourly rates and estimated number of hours to be spent on the project by each project participant. This section should be used only for work that will be completed directly by the applicant. Any work performed by contractors, should be included in the contractor section. In the budget narrative:
 - A. Indicate the duties of each individual and correlate those duties to the purpose/goals of the project.
 - B. Proof must be provided of the customary charges for such services rendered, based on the individual's qualifications.

- **Fringe Benefits:** Please include costs of fringe benefits for personnel included in personnel/salaries category. Items include social security and Medicare, state unemployment insurance, worker's compensation insurance, disability insurance, retirement and health insurance supplement.

- **Other:** Provide in sufficient detail an itemized list of projected expenditures, their cost and use. Other items mean any item not fitting into the personnel, contractual, equipment, travel, and supplies categories explained above (e.g., rentals). In the budget narrative, provide the basis of the cost estimate (e.g. price analysis, vendor quotes) for each item being requested and its correlation to the purpose/goals of the project to justify your need.

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Equal Opportunity: The State of Michigan and the Department of Agriculture & Rural Development prohibit discrimination on the basis of religion, race, color, national origin, age, sex, sexual orientation, gender identity or expression, height, weight, marital status, partisan considerations, or a disability or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position.

To file a complaint of discrimination, please contact: MDARD Office of Legal Affairs, 525 West Allegan, Lansing, MI 48909, or call 517-284-5729

You may also contact the Michigan Department of Civil Rights at:

Phone: 313-456-3700

Fax: 313-456-3701

Toll-Free: 800-482-3604

TTY: 877-878-8464

Email: MDCRServiceCenter@michigan.gov

Organizational Capacity Survey

The objective of the Organizational Capacity Survey is to attain an understanding of your organization's systems, policies, processes, and practices. The information collected by this survey will be used by the Department of Agriculture & Rural Development (MDARD) as a tool to review the capacity of your organization to successfully execute the terms of this grant. NOTE: MDARD reserves the right to request a copy of any materials attested to in this Organization Capacity Survey.

Instructions:

- ~ Respond to each applicable question: some questions may not be applicable to your entity;
- ~ Submit with your application to MDA-grants@michigan.gov

Person completing this survey: James Brennan

Title: MRBA/TIFA Chairperson

Phone / e-mail: 906-376-2009 / lburton@northpines.net

1. Technology Resources. Does your organization:
 - a. Provide a computer for all employees/persons? Yes No
 - b. Have a dedicated e-mail account for all employees/persons Yes No
 - c. Have high-speed internet access? Yes No
2. What was your average annual employee turnover rate for the past two years? none
3. Does your organization have the ability to effectively respond to sudden personnel changes on a:
 - a. Short-term basis (unexpected illness) Yes No
 - b. Intermediate-term basis (unexpected resignation) Yes No
 - c. Long-term basis (budgetary cutbacks necessitating staff reduction) Yes No
4. If you are a food establishment, do you hold a current license? Yes No
5. Has an audit by a Certified Public Accounting been finalized for the most recently completed fiscal year? Yes No
6. If "No", is one currently underway or scheduled? Yes No
7. Has your organization received funding for this project from another source?
Yes No
8. Has your organization requested funding for this project from another source?
Yes No
9. Has your organization received a federal or state grant award in the last two (2) years?
Yes No
10. Does your organization use an automated accounting system? Yes No
If "Yes", what is the name of the system? Fund Balance
11. Has your organization registered with [State Budget Office - Contract & Payment Express](#)
Yes No